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BY
W. H. DORE

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* In coöperation with office of Public Roads and Rural Engineering, U. S. Department of Agriculture.

FOREWORD

By the provisions of section nine of the act creating the State Department of Agriculture (approved May 16, 1919, Stats. 1919, p. 542) the Director of Agriculture “. . . is vested with the power and is charged with the duty of administering and enforcing . . .” the state law regulating the sale of commercial fertilizers (approved March 20, 1903, Stats. 1903, p. 259), and all acts amending or supplementing said act. Although the transfer of functions legally took place on July 20, 1919, an arrangement was made with the Agricultural Experiment Station to postpone the actual transfer until July 1, 1920, on account of lack of funds and proper housing for the laboratory equipment.


I am deeply appreciative of the work of the Director of the Agricultural Experiment Station and his associates in administering the fertilizer control law during the fiscal year ending June 30, 1920, report of which is made in this publication.

My duty of correlating the administration of state regulatory measures pertaining to agriculture, as definitely outlined by legislative action, was carried out in respect to the fertilizer control law by actively assuming its administration on July 1, 1920, and transferring the necessary office and laboratory equipment to Sacramento.

Reports of analyses of commercial fertilizers and other publications pertaining to the operation of the law will be issued hereafter by the State Department of Agriculture, Sacramento, to which address all communications on these subjects should be sent.

G. H. HECKE, Director,
State of California,
Department of Agriculture.

SACRAMENTO, November 22, 1920.



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COMMERCIAL FERTILIZERS

BY W. H. DORE

This bulletin comprises the results of the fertilizer inspection work of the California Fertilizer Control* for the fiscal year ending June 30, 1920.

PURPOSE AND FUNCTIONS OF THE FERTILIZER CONTROL

The duty of the Fertilizer Control is:

First.—To issue certificates of registration to manufacturers and dealers who have complied with the law by filing a sworn statement of the composition and sources of the fertilizers they wish to sell.

Second.—To analyze these fertilizers as found in the open market and publish the results for the information of the public. If a manufacturer sells fertilizers which are materially below his guarantee in composition or value he is subject to prosecution and fine. By this means it is intended to insure to purchasers that the fertilizers they buy shall be substantially as represented.

By a study of the reports of analyses of fertilizers the consumer should be able to determine whether the materials he buys are sold for a fair price, and whether he obtains fertilizers of the desired composition. In short, the function of the Fertilizer Control is to see that the manufacturer gives the consumer a square deal.

MAINTENANCE OF GUARANTEES

Every manufacturer is required by law to guarantee the percentage of nitrogen, phosphoric acid, and potash in the fertilizers he sells. Owing to difficulties of sampling and analysis the law permits a maximum deficiency of 0.25 per cent nitrogen, 1.00 per cent phosphoric acid, and 0.50 per cent potash from the figures guaranteed. Greater deficiencies than these are regarded as infractions of the law and are indicated in the report of analyses in black-faced type.

Some manufacturers uphold their guarantees better than others. The following table is a condensed report of the deficiencies found in the main table of analyses. It summarizes the work done in this laboratory on each manufacturer's goods. The columns headed *Deficiencies*—

* General Laws of California, Oct 1157, Statutes of 1903, p. 259 et seq., approved March 20, 1903.

per cent of possible, may be used for comparison of the various companies as to probability of meeting their guarantees. The other columns are necessary to show how these figures were obtained. In cases where very few analyses are reported for a manufacturer the figures should be taken with caution, as perhaps not properly representative. When several samples of one manufacturer's goods were analyzed the figures may be accepted as probably a fair indication of the reliability of his guarantee.

In general, manufacturers have more than maintained their guarantees in the past, so that an average of all the analyses would show a substantial increase over the amount guaranteed.

MAINTENANCE OF GUARANTEES BY MANUFACTURER

Manufacturer	Number of brands sampled	Number of samples analyzed	Total number of guarantees on samples analyzed	Deficiencies				Valuations below guarantee
				In guarantees		In valuation		
				No.	Per cent of possible	No.	Per cent of possible	
Agricultural Chemical Works....	12	68	152	27	18	13	19	30
American Agricultural Chemi- cal Co.	6	19	54	1	2	0	0	2
Cudahy Packing Co.	3	5	8	1	12	1	20	3
Fruit Growers' Supply Co.	2	6	11	0	0	0	0	3
General Fertilizer Association ..	19	44	110	10	9	4	9	20
Germain Seed and Plant Co.	6	9	23	3	13	0	0	2
Hauser Packing Co.	8	51	90	25	28	16	31	30
Hawaiian Fertilizer Co.	2	2	5	0	....	1	....	1
Mountain Copper Co.	1	1	1	0	....	0	....	1
Oakland Meat and Packing Co.	1	1	3	0	....	0	....	0
Pacific Bone, Coal and Fertil- izing Co.	3	4	8	0	0	1	25	3
Pacific Guano and Fertilizer Co.	23	65	146	5	3	2	3	10
Pacific Wood and Coal Co.	2	2	5	0	....	0	....	1
Rogers, Brown & Co.	3	7	14	6	43	3	43	4
Southern California Fertilizer Co.	6	22	64	2	3	0	0	7
W. M. Warren Fertilizer Co.	7	9	15	2	13	1	11	2
Western Meat Co.	7	29	64	4	6	1	4	2
Wilson & Co.	1	1	2	0	....	0	....	0

Owing to the possibility of misunderstanding, the figures for percentage deficiencies are not given in above table in cases where less than four samples were analyzed.

Fertilizers sold on station analysis, and some others, are not given a valuation in the table of analyses, hence the number of such samples is deducted from the total number analyzed in computing deficiencies in valuation.

SUMMARY OF DEFICIENCIES

In the analyses of the above samples the following number of deficiencies greater than those allowed by law occurred:

Available phosphoric acid (total when available is not guaranteed)....	26
Total nitrogen	56
Potash	4
In valuation	43

These deficiencies were found in 76 samples out of a total of 365 collected samples.

Of the total number of valuations reported in this bulletin 64 per cent are above the amount guaranteed, while 36 per cent fall below.

MECHANICAL CONDITION OF FERTILIZERS

Fineness is one of the essential qualities of a good fertilizer. It may be assumed that the finer the material the higher its availability, hence the consumer should insist on having finely ground fertilizers. Unfortunately, some manufacturers are at times careless in this matter. The insistent demand of the consumer is the most effective means of correcting such carelessness.

Besides the low agricultural availability of coarse fertilizer and the difficulty in applying them, it is almost impossible to obtain adequately representative samples of such goods for analysis. This is a prolific source of dissatisfaction and disagreement between buyers and sellers. During handling and transportation a coarsely ground tankage will separate so that the top of the sack contains the light coarser material, high in nitrogen, while the bottom contains the finer parts of bone, high in phosphoric acid. A mixture of coarse bone meal with sulfate of potash will separate into coarse bone at the top and excess of potash at the bottom.

One of the chief reasons for the work of the fertilizer manufacturer is that he is better prepared than the farmer to grind and mix the goods he sells, and the farmer should insist that he do it well.

CAUTION IN REGARD TO LABELING FERTILIZER PACKAGES

The law expressly states that every package of fertilizer shall be accompanied by a plainly printed label giving the brand name, analysis, and source of the materials in the package. This requirement is not satisfactorily met by some manufacturers and dealers. Farmers are hereby cautioned that if they buy improperly or inadequately labeled fertilizers or goods not sold by properly registered dealers or

their authorized agents they lose the protection afforded by the Fertilizer Control. Consumers should insist that fertilizer tags show plainly both the percentage and the derivation of each ingredient. A verbal statement given by selling agent should not be accepted as adequate. The honest manufacturer is willing to guarantee his goods properly, and the farmer will best serve his own interests by dealing with no other.

FERTILIZER VALUATIONS

One per cent of a ton, 20 pounds, is called a "unit." Computation of the value of a fertilizer is simplified by use of the "unit." To find the commercial value of a fertilizer, multiply the per cent of each ingredient by the price per unit and add the products. The sum thus found is the value per ton at the prices used. If it is desired to use such calculations for determining the amount which should be paid for goods, or the rebate to which the buyer is entitled, owing to the goods delivered being below the guaranty, it can only be satisfactorily done if a definite price per unit has been agreed upon between buyer and seller. But for the mere purpose of showing the relative values of goods to guaranties, it is not at all necessary that the prices adopted should be the exact market prices. Thus it is that the Fertilizer Control in attempting to show the relation between values found and values claimed uses a schedule which is admittedly only an approximate average of market values. Owing to market fluctuations, differences in cost of delivery at different points, and other causes, it is impossible to obtain true average market prices, but if the reader will bear in mind the true purpose of the valuations reported these will have served their purpose and he will not be led to assume that the experiment station is dictating the prices at which fertilizers shall be sold.

SCHEDULE OF VALUES FOR 1919-1920

	Per pound	Per unit
Nitrogen from blood	\$0.45	\$9.00
Nitrogen from tankage and bone .....	.40	8.00
Nitrogen from sulphate of ammonia .....	.25	5.00
Nitrogen from nitrate of soda .....	.25	5.00
Phosphoric acid, available from rock super .....	.06	1.20
Phosphoric acid, total from bone or tankage .....	.07	1.40
Potash, water soluble .....	.15	3.00

SCOPE OF INSPECTION

During the year 365 samples of fertilizers and fertilizing materials were received and analyzed at this laboratory. Of this number 6 were sent by farmers under the two-dollar fee provision, 81 were taken by inspectors from purchasers' goods upon the request of the purchasers,

and 258 were taken by inspectors from goods in the hands of agents and manufacturers. Twenty samples of a miscellaneous nature are omitted from the tables.

The following classification indicates the nature of the samples reported in this bulletin:

Bat guano	4
Bird guano	3
Blood	25
Bone meal	23
Complete fertilizer	127
Fish meal	29
Garbage tankage	3
Incomplete mixed fertilizer	50
Nitrate of soda	10
Sulphate of ammonia	11
Superphosphate	4
Tankage	56

REGISTERED MANUFACTURERS AND DEALERS

The following manufacturers and dealers in commercial fertilizers obtained certificates of registration under the provisions of the California Fertilizer Law for the fiscal year beginning July 1, 1919. With each a list is given of the brands of fertilizers and fertilizer materials offered for sale. According to the sworn returns of dealers registered for the fiscal year ending June 30, 1919, their entire sales in the state amounted to 43,126 tons. Practically complete returns for the year ending June 30, 1920, indicate sales aggregating 58,636 tons.

The California Fertilizer Act provides that fertilizers cannot be legally sold in this state, except by those manufacturers and dealers, and their authorized agents, who have obtained certificates of registration from the University of California. No person or company has a right to use any registration number except in connection with the firm name to which the registration certificate of such number has been issued; and no person or company to whom a registration number has been assigned has a right to allow any other person or company to use said registration number. Any number so used is a fraud. No agent has a right to use his principal's registration number in connection with his own name.

By act of the Legislature of 1919 the administration of the California Fertilizer Act has been transferred to the State Department of Agriculture and the duties connected therewith have been assumed by that office since July 1, 1920. All correspondence concerning the registration, manufacture, sale, and analysis of fertilizers should, accordingly, in the future be addressed to Division of Chemistry, State Department of Agriculture, Sacramento, California.

Agricultural Chemical Works, Los Angeles, Cal.

REGISTRATION No. 8

Bat Guano	Kelp Potash
Bird Guano	Nitrate of Soda
Blood	Sulphate of Ammonia
Brand A, B, K	Sulphate of Potash
Bone Meal	Superphosphate
Fish Guano	Tankage
Gypsum	Special Mixtures to order

American Agricultural Chemical Co., Los Angeles, Cal.

REGISTRATION No. 1

Acid Phosphate	Bradley's Vegetable
Blood	Fish Meal
Bradley's No. 1 Grain	Nitrate of Soda
Bradley's No. 2 Grain	Packer's Fertilizer Assn. Special
Bradley's Lawn	4-10- $\frac{1}{2}$
Bradley's Lemon Tree	Raw Mineral Phosphate Rock
Bradley's Nursery Stock	Sulphate of Ammonia
Bradley's Orange and Lemon	Sulphate of Potash
Bradley's Special Nursery Stock	Tankage
Bradley's Tree and Vine	Special Brands to order

Anaheim Beef and Provision Co., Anaheim, Cal.

REGISTRATION No. 88

Blood, Bone, and Meat Tankage

Rogers, Brown & Co., Los Angeles, Cal.

REGISTRATION No. 85

Blood	Superphosphate
Fish Tankage	Whale Bone Meal
Nitrate of Soda	Whale Meat and Blood
Packing House Tankage	Whale Meat and Bone
Sulphate of Ammonia	

California Fertilizer Works, San Francisco, Cal.

REGISTRATION No. 3

Diamond A, B, C, D, E, F, G Special Brands to order

Cudahy Packing Co., Los Angeles, Cal.

REGISTRATION No. 79

High Grade Ground Blood	High Grade Tankage A, B
Low Grade Ground Blood	Low Grade Tankage
High Grade Fish Meal	Special Lawn
High Grade Fish Meal B	Tankage Formula

Fruit Growers' Supply Co., Los Angeles, Cal.

REGISTRATION No. 90

Blood	Tankage
Bone	Other Simples
Nitrate of Soda	

General Fertilizer Association, San Bernardino, Cal.

REGISTRATION No. 42

Shamrock Citrus Grower	Simples of all kinds
Shamrock Crop Grower	Special Mixtures to order
Shamrock Orange Grower	

Germain Seed and Plant Co., Los Angeles, Cal.

REGISTRATION No. 76

Blood and Bone	Nuvida Vegetable
Flower and Fern	Special Mixtures
Nuvida Lawn and Garden	

Globe Grain and Milling Co., Los Angeles, Cal.

REGISTRATION No. 83

Bat Guano	Garbage Tankage
Blood	Nitrate of Soda
Bone Meal	Superphosphate
Fish Meal	Tankage

Hauser Packing Co., Los Angeles, Cal.

REGISTRATION No. 33

High Grade Blood	Steamed Bone Meal
High Grade Tankage	Sulphate of Potash
Low Grade Tankage	Special Mixtures to order
Nitrate of Soda	

Hawaiian Fertilizer Co., Ltd., San Francisco, Cal.

REGISTRATION No. 19

Blood	Nursery
Bone Tankage	Santa Clara Vegetable
Concentrated Tankage	Special Fall
Delta No. 1	Special Spring
Fish Guano	Sulphate of Ammonia
Fish Meal No. 1	Sulphate of Potash
Fish Meal No. 2	Superphosphate
Fruiting	Thomas Phosphate
Lawn	Vegetable
Muriate of Potash	Whale Guano
Nitrate of Soda	Special Mixtures

S. Ishimatsu, Los Angeles, Cal.

REGISTRATION No. 98

Blood Meal	Sulphate of Ammonia
Bone Meal	Superphosphate
Cotton Seed Meal	3-9-3
Fish Meal	4-8-4
Nitrate of Soda	5-8-1
Potash	

Mountain Copper Co., San Francisco, Cal.

REGISTRATION No. 28

Mococo Superphosphate 0-17-0	Special Mixtures to order
Nitrate of Soda	

Nitrate Agencies Co., San Jose, Cal.

REGISTRATION No. 97

Nitrate of Soda

Pacific Bone, Coal and Fertilizing Co., San Francisco, Cal.

REGISTRATION No. 14

Aborette No. 1	Pomona No. 1
Aborette No. 2	Pomona No. 2
Citrona No. 1	Potash Salts
Citrona No. 2	Prosperina
Flora	Special Nursery
Lupine Special	Steam Bone Meal

Pacific Guano and Fertilizer Co., San Francisco, Cal.

REGISTRATION No. 4

Gaviota F and V	Gaviota VGR
Gaviota IXL Lawn Dressing	Gaviota 3-10-½
Gaviota PP	Gaviota 7-11-0
Gaviota S	Gromore
Gaviota Superphosphate	Special Crop Maker 4-10-1
Gaviota TRK	Special Mixtures to order

Pacific Wood and Coal Co., San Diego, Cal.

REGISTRATION No. 53

Diamond Complete	Diamond Lawn
Diamond B G	Diamond Tankage
Diamond Bone Meal	Nitrate of Soda
Diamond Fish Meal	Superphosphate

Southern California Fertilizer Co., Los Angeles, Cal.

REGISTRATION No. 89

Banner	Guanos
Blood	Nitrate of Soda
Bone Meal	Potash
Eagle	Sulphate of Ammonia
Fish	Superphosphate
Fruiting	Tankage
Garbage Tankage	Special Mixtures

Union Superphosphate Co., San Francisco, Cal.

REGISTRATION No. 31

Superphosphate, Gaviota

W. M. Warren Fertilizer Co., Covina, Cal.

REGISTRATION No. 92

Various Brands

Western Fertilizer Co., San Francisco, Cal.

REGISTRATION No. 68

Wizard Wonder

Western Meat Co., San Francisco, Cal.

REGISTRATION No. 11

Diamond A, B, C, D, E	Odorless Lawn Dressing
Diamond F Raw Bone	Putting Green
Diamond G Steamed Bone	Special 5-8-2
Diamond H Blood	Special 6-8-2
Diamond L, M, O, S	Sulphate of Potash
Grain Special	Superphosphate
Lemon Special	Tankage
Nitrate of Soda	Special Brands to order

Wilson & Co., Los Angeles, Cal.

REGISTRATION No. 64

Alfalfa Grower	Special 5-8-1
Blood Meal	Superphosphate
Blood and Bone	Tankage 5-5
Bone Meal	Tankage 8-8
Concentrated Manure	Trucker's Special
Flora Lawn	Vegetable Grower
Nitrate of Soda	Zenith Fertilizer

REPORT OF ANALYSES

Available phosphoric acid is not determined in bone meal, tankage, and Thomas phosphate powder unless requested. The fineness of these materials is determined, fine and medium bone being separated by a sieve of 50 meshes to the inch; tankage by a 25-mesh sieve; and Thomas phosphate powder by a 100-mesh sieve.

Nitrogen in ammonium salts will, in some cases, be found reported when nitrogen in this form is not guaranteed. In some of such cases this form of nitrogen is produced by conversion of organic nitrogen during the process of manufacture, and is not to be considered a deviation from the guaranty. Guanos carry more or less nitrogen in nitrates and ammonium salts, and when any appreciable quantity of guano is used the manufacturer should take into account the fact that some nitrogen will show as nitrates and ammonium salts. The failure to take this into consideration may account for the appearance of these forms of nitrogen in some samples in which only organic nitrogen was guaranteed.

The percentage of chlorin is given when it exceeds 0.50 per cent. It is a matter of only technical interest whether chlorin present is from muriate of potash, kainit, or from common salt that may be in some of the materials used. If a manufacturer uses sulfate of potash and a tankage with it containing a large amount of chlorin, from a practical standpoint he has changed the quality of his fertilizer just as much as if he had used muriate of potash instead of sulfate of potash. Chlorin from all other sources has the same effect as if from muriate of potash. However, if muriate of potash is found when sulfate is guaranteed the fact will be published.

The following abbreviations are used in the tables: Bat G = bat guano, Bl = blood, Bn = bone, Fs = fish, G = guano, H = hoof, Min Phos = mineral phosphate, Super = superphosphates, T = tankage, CSM = cotton seed meal.

Guarantees are entered in italics. Deficiencies greater than those allowed by law are entered in bold-faced type.

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Agricultural Chemical Works, Los Angeles, Cal.			
7661	Bat Guano	J. H. Black, Upland		39.48
	<i>Guaranteed</i>			53.34
7662	Bat Guano	J. H. Black, Upland		51.28
	<i>Guaranteed</i>			68.27
7874	Bat Guano	J. H. Black, Upland		43.01
	<i>Guaranteed</i>			49.48
7649	Bird Guano	J. E. Gowen, Santa Ana		38.71
	<i>Guaranteed</i>			41.81
7841	Bird Guano	G. A. Herdeg, Riverside		51.81
	<i>Guaranteed</i>			58.90
7859	Blood	E. A. Moore, Redlands		122.04
7898	Blood	D. C. Huntington, San Bernardino		118.53
7945	Blood	R. G. Rohrer, San Diego		120.15
	<i>Guaranteed</i>			121.95
7756*	Bone Meal	Herman Kolberg, Orange		57.74
	<i>Guaranteed</i>			62.20
7704	Brand A	S. G. Rossiter, Rialto		50.59
7749	Brand A	Herman Kolberg, Orange		43.46
7851	Brand A	E. A. Moore, Redlands		46.79
7875	Brand A	J. H. Black, Upland		47.10
	<i>Guaranteed</i>			46.20
7757	Brand B	Herman Kolberg, Orange		47.47
	<i>Guaranteed</i>			54.20
7869	Brand B	H. I. Van Frank, Rialto		50.58
7872	Brand B	J. H. Black, Upland		49.44
7921	Brand B	S. G. Rossiter, Rialto		51.22
	<i>Guaranteed</i>			51.20
7873	Brand C	J. H. Black, Upland		54.45
	<i>Guaranteed</i>			56.20
7954	Brand C	A. L. Wright, Pomona		57.06
	<i>Guaranteed</i>			56.20
7846*	Fish Meal	E. A. Moore, Redlands		97.29
	<i>Guaranteed</i>			95.60
7855*	Fish Meal	Henry Fuller, Redlands		95.45
	<i>Guaranteed</i>			92.37
7856*	Fish Meal	Henry Fuller, Redlands		96.76
	<i>Guaranteed</i>			92.59
7857*	Fish Meal	Henry Fuller, Redlands		97.26
	<i>Guaranteed</i>			92.80
7878*	Fish Meal	J. H. Black, Upland		84.24
	<i>Guaranteed</i>			82.38
7922*	Fish Meal	C. G. Milligan, Rialto		89.10
	<i>Guaranteed</i>			86.25
7963*	Fish Meal	K. Okomoto, Los Angeles		61.74
	<i>Guaranteed</i>			68.60
7605	Nitrate of Soda	G. A. Herdeg, Riverside		78.40
7858	Nitrate of Soda	E. A. Moore, Redlands		77.00
7870	Nitrate of Soda	H. I. Van Frank, Rialto		74.20
	<i>Guaranteed</i>			75.00
7607	Special	G. A. Herdeg, Riverside		48.81
7650	Special	J. E. Gowen, Santa Ana		41.27

* 7756—51% fine.

* 7846—70% fine.

* 7855—78% fine.

* 7856—62% fine.

* 7857—65% fine.

* 7878—91% fine.

* 7922—79% fine.

* 7963—Mixed fertilizer mislabeled Fish Meal.

Lab. No.	PHOSPHORIC ACID				NITROGEN					POTASH		
	Avail-able	In-soluble	Total	Guaranteed as derived from	In Ni-trates	In Am-monia Salts	Or-ganic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLO-RIN
7661	3.20	.....	0.59	1.07	2.64	.....	4.30	.....	1.86	.....
.....	<i>4.61</i>	.....	.....	.....	<i>5.68</i>	.....	<i>5.68</i>	.....	<i>2.15</i>	.....
7662	8.85	.....	0.60	0.96	2.84	.....	4.40	.....	2.79	.....
.....	<i>9.38</i>	.....	.....	.....	<i>5.79</i>	.....	<i>5.79</i>	.....	<i>2.94</i>	.....
7874	5.40	.....	.94	1.07	2.71	.....	<i>4.72</i>	.....	1.24	0.72
.....	<i>4.98</i>	.....	.....	.....	<i>4.74</i>	.....	<i>4.74</i>	.....	<i>1.53</i>	.....
7649	7.80	.....	.....	1.26	2.36	.....	<i>3.62</i>	.....	0.87	.....
.....	<i>8.25</i>	.....	.....	.....	<i>3.37</i>	.....	<i>3.37</i>	.....	<i>1.10</i>	.....
7841	8.90	.....	.....	1.93	3.30	.....	<i>5.23</i>	.....	1.10	.....
.....	<i>9.26</i>	.....	.....	.....	<i>5.33</i>	.....	<i>5.33</i>	.....	<i>1.10</i>	.....
7859	13.56	.....	13.56	.....	.....	.....
7898	13.17	.....	13.17	.....	.....	.....
7945	13.35	.....	13.35	.....	.....	.....
.....	<i>13.55</i>	.....	<i>13.55</i>	.....	.....	.....
7756	20.90	.....	.....	.....	3.56	.....	<i>3.56</i>	.....	.....	.....
.....	<i>23.00</i>	.....	.....	.....	<i>3.75</i>	.....	<i>3.75</i>	.....	.....	.....
7704	3.77	3.88	7.65	.....	1.74	.....	2.36	.....	<i>4.10</i>	4.10	4.10	0.80
7749	2.58	5.42	8.00	.....	0.67	1.79	1.64	.....	<i>4.10</i>	2.28	2.28	.....
7851	1.80	6.60	8.40	.....	1.62	.....	2.35	.....	<i>3.97</i>	2.71	2.71	0.55
7875	2.96	5.94	8.90	.....	1.08	.61	2.46	.....	<i>4.15</i>	2.17	2.17	0.57
.....	<i>5.00</i>	<i>3.00</i>	<i>8.00</i>	<i>Bn, Super, T</i>	<i>2.00</i>	.....	<i>2.00</i>	<i>Bat, G, Bl, Bn</i>	<i>4.00</i>	<i>3.00</i>	<i>3.00</i>	.....
7757	7.70	.....	1.27	1.12	2.11	.....	4.50	2.62	2.62	.75
.....	<i>8.00</i>	<i>Bn, Super, T</i>	<i>1.00</i>	<i>1.00</i>	<i>3.00</i>	<i>Bat, G, Bl, Bn, Fs</i>	<i>5.00</i>	<i>3.00</i>	<i>3.00</i>	.....
7869	8.55	.....	0.96	1.14	2.94	.....	<i>5.04</i>	.....	1.53	1.40
7872	8.20	.....	1.18	1.05	2.74	.....	<i>4.97</i>	1.63	1.63	0.97
7921	7.05	.....	1.71	0.75	2.66	.....	<i>5.12</i>	2.59	2.59	.....
.....	<i>8.00</i>	<i>Bn, Super, T</i>	<i>1.00</i>	<i>1.00</i>	<i>3.00</i>	<i>Bat, G, Bl, Bn, Fs</i>	<i>5.00</i>	<i>2.00</i>	<i>2.00</i>	.....
7873	2.65	5.60	8.25	.....	0.95	2.62	2.58	.....	<i>6.15</i>	1.47	1.47	0.82
.....	<i>4.00</i>	<i>4.00</i>	<i>8.00</i>	<i>Bn, Super, T</i>	<i>1.00</i>	<i>2.00</i>	<i>3.00</i>	<i>Bat, G, Bl, Bn</i>	<i>6.00</i>	<i>2.00</i>	<i>2.00</i>	.....
7954	8.30	.....	2.76	.....	3.10	.....	<i>5.86</i>	.....	2.28	1.40
.....	<i>8.00</i>	<i>Bn, Super, T</i>	<i>1.00</i>	<i>2.00</i>	<i>3.00</i>	<i>Bl, Bn, Bat, G, Fs</i>	<i>6.00</i>	<i>2.00</i>	<i>2.00</i>	.....
7846	6.75	.....	.....	.....	10.98	.....	10.98	.....	.....	.....
.....	<i>6.86</i>	.....	.....	.....	<i>10.75</i>	.....	<i>10.75</i>	.....	.....	.....
7855	8.35	.....	.....	.....	10.47	.....	<i>10.47</i>	.....	.....	.....
.....	<i>7.75</i>	.....	.....	.....	<i>10.19</i>	.....	<i>10.19</i>	.....	.....	.....
7856	8.60	.....	.....	.....	10.59	.....	<i>10.59</i>	.....	.....	.....
.....	<i>8.25</i>	.....	.....	.....	<i>10.13</i>	.....	<i>10.13</i>	.....	.....	.....
7857	8.10	.....	.....	.....	10.74	.....	<i>10.74</i>	.....	.....	.....
.....	<i>8.06</i>	.....	.....	.....	<i>10.19</i>	.....	<i>10.19</i>	.....	.....	.....
7878	7.20	.....	.....	.....	9.27	.....	<i>9.27</i>	.....	.....	.....
.....	<i>6.96</i>	.....	.....	.....	<i>9.08</i>	.....	<i>9.08</i>	.....	.....	.....
7922	5.30	.....	.....	.....	10.21	.....	<i>10.21</i>	.....	.....	.....
.....	<i>5.55</i>	.....	.....	.....	<i>9.81</i>	.....	<i>9.81</i>	.....	.....	.....
7963	10.00	.....	1.50	.....	5.03	.....	6.53	.....	.....	.....
.....	<i>9.00</i>	.....	.....	.....	<i>7.00</i>	.....	<i>7.00</i>	.....	.....	.....
7605	15.68	.....	.....	.....	15.68	.....	.....	.....
7858	15.40	.....	.....	.....	15.40	.....	.....	.....
7870	14.84	.....	.....	.....	14.84	.....	.....	.....
.....	<i>15.00</i>	.....	.....	.....	<i>15.00</i>	.....	.....	.....
7607	10.65	.....	0.43	2.27	2.55	.....	<i>5.25</i>	.....	.....	.....
7650	9.65	.....	2.72	.....	1.77	.....	4.49	.....	.....	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
Agricultural Chemical Works, Los Angeles, Cal. (Continued)				
7705	Special	S. G. Rossiter, Rialto		48.07
7755	Special	Herman Kolberg, Orange		45.64
	Guaranteed			45.00
7608	Special	G. A. Herdeg, Riverside		54.60
7706	Special	S. G. Rossiter, Rialto		50.90
7752	Special	Herman Kolberg, Orange		52.88
7842*	Special	G. A. Herdeg, Riverside		54.68
	Guaranteed			53.00
7621	Special	E. A. Moore, Redlands		53.23
	Guaranteed			50.00
7622	Special	E. A. Moore, Redlands		58.25
7831	Special	J. E. Brown, Riverside		56.31
	Guaranteed			56.60
7623	Special	E. A. Moore, Redlands		49.88
	Guaranteed			46.20
7624	Special	E. A. Moore, Redlands		60.08
7830*	Special	G. A. Herdeg, Riverside		69.53
7847*	Special	E. A. Moore, Redlands		65.38
7871	Special	J. H. Black, Upland		60.03
	Guaranteed			60.20
7625	Special	E. A. Moore, Redlands		48.18
7754	Special	Herman Kolberg, Orange		50.35
7828	Special	G. A. Herdeg, Riverside		44.05
	Guaranteed			48.00
7876	Special	J. H. Black, Upland		46.97
	Guaranteed			48.00
7626	Special	E. A. Moore, Redlands		42.84
7628	Special	Anaheim Orange & Lemon Assoc., Anaheim		47.51
7665	Special	J. H. Black, Upland		43.33
7829	Special	G. A. Herdeg, Riverside		39.62
	Guaranteed			42.80
7651	Special	J. E. Gowan, Santa Ana		41.36
7664	Special	J. H. Black, Upland		44.54
	Guaranteed			42.80
7753	Special	Herman Kolberg, Orange		60.41
	Guaranteed			59.20
7772	Special	Campbell Seed Store, Pasadena		35.34
7848	Special	E. A. Moore, Redlands		35.19
7886	Special	Aggler & Musser Seed Co., Los Angeles		34.28
	Guaranteed			35.00
7852	Special	E. A. Moore, Redlands		55.92
7877	Special	J. H. Black, Upland		57.52
	Guaranteed			56.20

* 7842—Contains hoof.

* 7847—Contains hoof.

* 7830—Some hoof.

Lab. No.	PHOSPHORIC ACID				NITROGEN					POTASH		CHLO- RIN
	Avail- able	In- soluble	Total	Guaranteed as derived from	In Ni- trates	In Am- monia Salts	Or- ganic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	
7705	11.50	.....	2.33	.....	2.54	.....	4.87	.....	.....	.....
7755	9.60	.....	.....	2.20	2.65	.....	4.85	.....	.....	.....
.....	10.00	<i>Bn, Super, T</i>	1.00	2.00	2.00	<i>Bat, G, Bl, Bn, Fs</i>	5.00	.....	.....	.....
7608	10.80	.....	0.69	2.39	3.01	.....	6.09	.....	.....	.....
7706	11.05	.....	2.40	0.35	2.71	.....	5.46	.....	.....	.....
7752	10.25	.....	1.04	2.25	2.76	.....	6.05	.....	.....	.....
7842	9.65	.....	1.32	1.09	3.64	.....	6.05	.....	.....	.....
.....	10.00	<i>Bn, Super, T</i>	1.00	2.00	3.00	<i>Bat, G, Bl, Bn, Fs</i>	6.00	.....	.....	.....
7621	10.80	.....	2.30	1.05	2.67	.....	6.02	.....	.....	.....
.....	10.00	<i>Bn, Super, T</i>	2.00	2.00	2.00	<i>Bat, G, Bl, Bn, Fs</i>	6.00	.....	.....	.....
7622	9.90	.....	0.38	4.37	2.58	.....	7.33	.....	.....	.....
7831	8.10	.....	2.46	1.19	3.34	.....	6.99	.....	.....	.....
.....	9.00	<i>Bn, Super, T</i>	2.00	2.00	3.00	<i>Bat, G, Bl, Bn</i>	7.00	.....	.....	.....
7623	6.92	1.68	8.60	.....	.....	1.98	2.33	.....	4.31	.....	.....	3.10
.....	8.00	<i>Bn, Super, T</i>	.....	2.00	2.00	<i>Bat, G, B, Bn, Fs</i>	4.00	.....	.....	3.00
7624	9.10	.....	2.00	2.30	3.23	.....	7.53	.....	.....	.....
7830	9.50	.....	2.14	1.33	4.86	.....	8.33	.....	.....	.....
7847	8.45	.....	1.38	2.37	4.35	.....	8.10	.....	.....	.....
7871	8.85	.....	2.02	1.31	3.87	.....	7.20	.....	.....	.....
.....	8.00	<i>Bn, Super, T</i>	3.00	2.00	3.00	<i>Bat, G, Bl, Bn</i>	8.00	.....	.....	.....
7625	10.55	.....	0.63	2.26	2.37	.....	5.26	.....	.....	.....
7754	10.45	.....	1.14	0.90	3.19	.....	5.23	.....	.....	.....
7828	10.60	.....	2.13	.....	2.32	.....	4.45	.....	.....	.....
.....	10.00	<i>Bn, Super, T</i>	1.00	1.00	3.00	<i>Bat, G, Bl, Bn, Fs</i>	5.00	.....	.....	.....
7876	9.60	.....	1.89	.....	3.01	.....	4.90	.....	.....	.....
.....	10.00	<i>Bn, Super, T</i>	2.00	.....	3.00	<i>Bat, G, Bl, Bn, Fs</i>	5.00	.....	.....	.....
7626	12.10	.....	0.82	1.72	1.65	.....	4.19	.....	.....	.....
7628	12.50	.....	0.54	1.67	2.37	.....	4.58	.....	.....	.....
7665	11.85	.....	.....	1.86	2.18	.....	4.04	.....	.....	.....
7829	11.50	.....	1.28	.....	2.14	.....	3.42	.....	.....	.....
.....	12.00	<i>Bn, Super, T</i>	1.00	1.00	2.00	<i>Bat, G, Bl, Bn, Fs</i>	4.00	.....	.....	.....
7651	11.75	.....	1.99	.....	1.87	.....	3.86	.....	.....	.....
7664	12.25	.....	1.99	.....	2.18	.....	4.17	.....	.....	.....
.....	12.00	<i>Bn, Super, T</i>	2.00	.....	2.00	<i>Bat, G, Bl, Bn, Fs</i>	4.00	.....	.....	.....
7753	8.30	.....	0.27	2.87	2.97	.....	6.11	.....	3.11	.....
.....	8.00	<i>Bn, Super, T</i>	1.00	2.00	3.00	<i>Bat, G, Bl, Bn, Fs</i>	6.00	.....	3.00	.....
7772	10.50	.....	1.12	.....	1.88	.....	3.00	.....	0.75	.....
7848	9.85	.....	0.92	.....	2.10	.....	3.02	.....	0.72	.....
7886	9.30	.....	0.94	.....	2.07	.....	3.01	.....	0.88	.....
.....	10.00	<i>Bn, Super, T</i>	1.00	.....	2.00	<i>Bat, G, Bl, Bn, Fs</i>	3.00	.....	0.50	.....
7852	7.85	.....	0.78	2.32	2.94	.....	6.04	1.97	1.97	0.57
7877	8.20	.....	1.04	2.30	2.94	.....	6.28	1.94	1.94	0.62
.....	8.00	<i>Bn, Super, T</i>	1.00	2.00	3.00	<i>Bat, G, Bl, Bn, Fs</i>	6.00	2.00	2.00	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Agricultural Chemical Works, Los Angeles, Cal.			
	(Continued)			
7854*	Special	Henry Fuller, Redlands		59.06
7926	Special	S. G. Rossiter, Rialto		57.39
7931	Special	J. H. Quick, Azusa		60.91
	Guaranteed			63.20
7897	Special	D. C. Huntington, San Bernardino		56.53
	Guaranteed			59.60
7758	Special C	Herman Kolberg, Orange		54.28
	Guaranteed			59.20
7606	Sulfate of Ammonia	G. A. Herdeg, Riverside		105.80
	Guaranteed			105.00
7663*	Tankage	J. H. Black, Upland		75.34
	Guaranteed			68.20

**American Agricultural
Chemical Co.,
Los Angeles, Cal.**

7700	Bradley's Lawn	F. E. Dudderer, Covina		43.04
7727	Bradley's Lawn	Pacific Wood and Coal Co., San Diego		43.73
7728	Bradley's Lawn	Pacific Wood and Coal Co., San Diego		44.31
7771	Bradley's Lawn	Campbell's Seed Store, Pasadena		41.93
7820	Bradley's Lawn	Aggler & Musser Seed Co., Los Angeles		42.37
	Guaranteed			42.00
7724	Bradley's Lemon Tree	Pacific Wood and Coal Co., San Diego		42.38
	Guaranteed			42.00
7675	Bradley's Nursery Stock	W. S. Fenton, Ontario		43.64
7699	Bradley's Nursery Stock	F. E. Dudderer, Covina		46.16
7707	Bradley's Nursery Stock	E. M. Cope Commercial Co., Redlands		43.30
7760	Bradley's Nursery Stock	Riverside Milling and Fuel Co., Riverside		50.03
7761	Bradley's Nursery Stock	Riverside Milling and Fuel Co., Riverside		46.70
7953	Bradley's Nursery Stock	Frank Burman, Covina		40.42
	Guaranteed			42.00
7726	Bradley's Spec. Nursery Stock	Pacific Wood and Coal Co., San Diego		39.71
	Guaranteed			37.50
7674	Bradley's Tree and Vine	W. S. Fenton, Ontario		38.80
7701	Bradley's Tree and Vine	F. E. Dudderer, Covina		37.65
7729	Bradley's Tree and Vine	Pacific Wood and Coal Co., San Diego		41.44
7821	Bradley's Tree and Vine	Aggeler & Musser, Los Angeles		37.60
	Guaranteed			33.65
7708	Packer's Fertilizer Assn. Spec.	E. M. Cope Commercial Co., Redlands		47.28
7819	Packer's Fertilizer Assn. Spec.	Aggeler & Musser Seed Co., Los Angeles		39.99
	Guaranteed			43.60

* 7854—Jar broken, sample possibly invalid.

* 7663—67% fine.

Lab. No.	PHOSPHORIC ACID				NITROGEN					POTASH		CHLO- RIN
	Avail- able	In- soluble	Total	Guaranteed as derived from	In Ni- trates	In Am- monia Salts	Or- ganic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	
7854	-----	-----	8.95	-----	1.30	1.83	3.86	-----	6.99	-----	-----	-----
7926	-----	-----	8.25	-----	2.76	1.16	3.28	-----	7.20	-----	-----	-----
7931	-----	-----	7.95	-----	1.97	1.97	3.76	-----	7.70	-----	-----	-----
-----	-----	-----	8.00	Bn, Super, T	2.00	2.00	4.00	Bat, G, Bl, Bn, Fs	8.00	-----	-----	-----
7897	-----	-----	9.40	-----	1.53	1.56	3.49	-----	6.58	-----	-----	-----
-----	-----	-----	9.00	Bn, Super, T	1.00	2.00	4.00	Bat, G, Bl, Bn	7.00	-----	-----	-----
7758	1.74	5.56	7.30	-----	3.01	-----	2.64	-----	5.65	2.63	2.63	-----
-----	4.00	4.00	8.00	Bn, Super, T	3.00	-----	3.00	Bat, G, Bl, Bn	6.00	3.00	3.00	-----
7606	-----	-----	-----	-----	-----	21.16	-----	-----	21.16	-----	-----	-----
-----	-----	-----	-----	-----	-----	21.00	-----	-----	21.00	-----	-----	-----
7663	-----	-----	12.50	-----	-----	-----	7.23	-----	7.23	-----	-----	-----
-----	-----	-----	13.00	-----	-----	-----	6.25	-----	6.25	-----	-----	-----
7700	9.01	1.74	10.75	-----	2.44	0.95	0.66	-----	4.05	1.92	1.92	-----
7727	8.78	1.52	10.30	-----	2.29	0.90	1.04	-----	4.23	1.68	1.68	-----
7728	8.29	2.16	10.45	-----	2.50	0.90	0.82	-----	4.22	2.04	2.04	-----
7771	9.00	1.80	10.80	-----	3.46	-----	0.54	-----	4.00	1.73	1.73	-----
7820	9.10	1.70	10.80	-----	2.44	0.88	0.72	-----	4.04	1.63	1.63	-----
-----	9.00	1.00	10.00	Bn, Super	2.35	0.75	1.00	Bat, G, Bl, Bn, Fs, T	4.10	1.50	1.50	-----
7724	8.55	1.80	10.35	-----	2.40	0.92	0.74	-----	4.06	1.79	1.79	-----
-----	9.00	1.00	10.00	Bn, Super	2.35	0.75	1.00	Bat, G, Bl, Bn, Fs, T	4.10	1.50	1.50	-----
7675	8.42	1.68	10.00	-----	2.54	0.92	0.79	-----	4.25	1.96	1.96	-----
7699	9.05	1.90	10.95	-----	2.53	0.94	0.77	-----	4.24	2.44	2.44	-----
7707	8.58	2.12	10.70	-----	2.08	0.93	1.13	-----	4.14	1.41	1.41	-----
7760	8.99	1.66	10.65	-----	2.60	1.02	1.04	-----	4.66	2.90	2.90	-----
7761	8.89	1.56	10.45	-----	2.53	0.97	0.88	-----	4.38	2.51	2.51	-----
7953	5.79	3.96	9.75	-----	2.51	1.31	0.46	-----	4.28	1.33	1.33	-----
-----	9.00	1.00	10.00	Bn, Super	2.35	0.75	1.00	Bat, G, Bl, Bn, Fs, T	4.10	1.50	1.50	-----
7726	8.70	1.80	10.50	-----	2.35	0.78	1.17	-----	4.30	-----	-----	-----
-----	9.00	1.00	10.00	Bat, G, Bn, Fs, T	2.35	0.75	1.00	Bat, G, Bl, Bn, Fs, T	4.10	-----	-----	-----
7674	8.68	1.32	10.00	-----	1.48	0.48	0.84	-----	2.80	2.76	2.76	-----
7701	8.53	1.42	9.95	-----	1.48	0.49	0.74	-----	2.71	2.65	2.65	-----
7729	7.32	8.18	15.50	-----	1.98	0.33	0.36	-----	2.67	1.77	1.77	-----
7821	7.64	3.86	11.50	-----	1.58	0.69	0.53	-----	2.80	1.97	1.97	-----
-----	8.00	1.00	9.00	Bn, Super	1.26	0.31	0.90	Bat, G, Bl, Bn, T	2.47	2.00	2.00	-----
7708	8.72	1.88	10.60	-----	0.47	1.25	2.98	-----	4.70	-----	1.09	0.85
7819	7.83	2.62	10.45	-----	1.00	1.32	1.72	-----	4.04	-----	0.87	-----
-----	8.00	2.00	10.00	Bn, Super	-----	0.80	3.20	Bat, G, Bl, Bn, Fs, T	4.00	-----	0.50	-----

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
Cudahy Packing Co., Los Angeles, Cal.				
7785	Blood	.....	W. M. Warren, Covina	119.34
7894	Blood	.....	J. H. Simpson, Covina	125.82
	Guaranteed	.....		121.50
7824*	Fish Meal	.....	Aggeler & Musser, Los Angeles	73.48
	Guaranteed	.....		87.80
7923*	Tankage	.....	Citrus Fruit Assn., Ontario	66.06
	Guaranteed	.....		67.78
7802*	Tankage	.....	W. M. Warren, Covina	79.20
	Guaranteed	.....		75.76
Fruit Grower's Supply Co., Los Angeles, Cal.				
7924	Blood	.....	R. Schwartz, Covina	107.28
	Guaranteed	.....		106.92
7779*	Fish Tankage	.....	Fillmore Citrus Fruit Assn., Fillmore	95.66
	Guaranteed	.....		90.72
7827*	Fish Tankage	.....	J. W. Corwin, Hyland	84.27
	Guaranteed	.....		85.32
7862*	Fish Tankage	.....	Citrus Fruit Assn., Ontario	86.86
	Guaranteed	.....		85.94
7911*	Fish Tankage	.....	M. L. Black, Redlands	86.44
	Guaranteed	.....		87.30
7932*	Fish Tankage	.....	M. L. Black, Redlands	82.22
	Guaranteed	.....		83.82
General Fertilizer Assn., San Bernardino, Cal.				
7710	Bat Guano	.....	Factory at Ontario	47.26
	Guaranteed	.....		53.89
7613	Blood	.....	J. Henry Reynolds, Redlands	116.28
	Guaranteed	.....		118.17
7778*	Bone Meal	.....	W. H. Brooks, San Fernando	57.84
	Guaranteed	.....		57.20
7604*	Fish Meal	.....	A. W. Towne, Pomona	92.79
	Sold on station analysis.			
7702*	Fish Meal	.....	H. L. Hostetler, Covina	91.45
	Guaranteed	.....		87.77
7887*	Fish Meal	.....	H. L. Hostetler, Covina	95.39
	Guaranteed	.....		93.74
7614	G. F. A.	.....	J. Henry Reynolds, Redlands	52.10
	Guaranteed	.....		54.20
7748	G. F. A. Special	.....	R. O. Stearns, Orange	59.65
7844	G. F. A. Special	.....	T. A. Blakeley, San Bernardino	55.13
	Guaranteed	.....		54.00
7611	G. F. A. Spec. Lawn and Rose.	.....	J. Henry Reynolds, Redlands	47.29
	Guaranteed	.....		51.20
7620	Nitrate of Soda	.....	J. Henry Reynolds, Redlands	79.20
7773	Nitrate of Soda	.....	W. H. Brooks, San Fernando	77.60
7889	Nitrate of Soda	.....	H. L. Hostetler, Covina	76.80
	Guaranteed	.....		75.00
7615	Shamrock Citrus Grower	.....	J. Henry Reynolds, Redlands	49.30
7746	Shamrock Citrus Grower	.....	R. O. Stearns, Orange	51.45
	Guaranteed	.....		49.00
7747	Shamrock Citrus Grower	.....	R. O. Stearns, Orange	37.75
	Guaranteed	.....		38.00

* 7824—70% fine.

* 7923—83% fine.

* 7802—53% fine.

* 7779—56% fine.

* 7827—56% fine.

* 7862—76% fine.

* 7911—62% fine.

* 7932—60% fine.

* 7778—61% fine.

* 7604—73% fine.

* 7702—60% fine.

* 7887—95% fine.

Lab. No.	PHOSPHORIC ACID				NITROGEN					POTASH		CHLORIN
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	
7785	13.26	.....	13.26	.....	.....	.....
7894	13.98	.....	13.98	.....	.....	.....
.....	13.50	.....	13.50	.....	.....	.....
7824	9.00	.....	.....	.....	7.61	.....	7.61	.....	.....	.....
.....	7.00	.....	.....	.....	9.75	.....	9.75	.....	.....	.....
7923	10.10	.....	.....	.....	6.49	.....	6.49	.....	.....	.....
.....	10.70	.....	.....	.....	6.60	.....	6.60	.....	.....	.....
7802	4.40	.....	.....	.....	9.13	.....	9.13	.....	.....	.....
.....	4.80	.....	.....	.....	8.63	.....	8.63	.....	.....	.....
7924	11.92	.....	11.92	.....	.....	.....
.....	11.88	.....	11.88	.....	.....	.....
7779	8.10	.....	.....	.....	10.54	.....	10.54	.....	.....	.....
.....	7.88	.....	.....	.....	9.96	.....	9.96	.....	.....	.....
7827	9.05	.....	.....	.....	8.95	.....	8.95	.....	.....	.....
.....	9.17	.....	.....	.....	9.06	.....	9.06	.....	.....	.....
7862	8.90	.....	.....	.....	9.30	.....	9.30	.....	.....	.....
.....	8.93	.....	.....	.....	9.18	.....	9.18	.....	.....	.....
7911	9.00	.....	.....	.....	9.23	.....	9.23	.....	.....	.....
.....	8.93	.....	.....	.....	9.35	.....	9.35	.....	.....	.....
7932	8.90	.....	.....	.....	8.72	.....	8.72	.....	.....	.....
.....	8.67	.....	.....	.....	8.96	.....	8.96	.....	.....	.....
7710	11.75	.....	0.51	1.65	1.59	.....	3.75	.....	2.43	.....
.....	12.59	.....	.....	.....	3.67	.....	3.67	.....	2.30	.....
7613	12.92	.....	12.92	.....	.....	.....
.....	13.00	.....	13.00	.....	.....	.....
7778	28.00	.....	.....	.....	2.33	.....	2.33	.....	.....	.....
.....	28.00	.....	.....	.....	2.25	.....	2.25	.....	.....	.....
7604	6.85	.....	.....	.....	10.40	.....	10.40	.....	.....	.....
7702	9.55	.....	.....	.....	9.76	.....	9.76	.....	.....	.....
.....	9.55	.....	.....	.....	9.30	.....	9.30	.....	.....	.....
7887	7.05	.....	.....	.....	10.69	.....	10.69	.....	.....	.....
.....	7.30	.....	.....	.....	10.44	.....	10.44	.....	.....	.....
7614	7.85	.....	0.49	.....	4.42	.....	4.91	.....	1.10	0.80
.....	8.00	Bn, G	.....	.....	5.00	Bl, Bn, G	5.00	.....	1.00	.....
7748	9.30	.....	0.61	.....	4.84	.....	5.45	.....	1.62	0.85
7844	9.70	.....	0.70	.....	4.16	.....	4.86	.....	1.59	1.17
.....	10.00	Bn, G	1.00	.....	4.00	Bl, Bn, G	5.00	.....	1.00	.....
7611	8.75	.....	0.99	.....	3.09	.....	4.08	.....	1.79	0.70
.....	8.00	Bn, G	1.00	.....	4.00	Bl, Bn, G	5.00	.....	1.00	.....
7620	15.84	.....	.....	.....	15.84	.....	.....	.....
7773	15.52	.....	.....	.....	15.52	.....	.....	.....
7889	15.36	.....	.....	.....	15.36	.....	.....	.....
.....	15.00	.....	.....	.....	15.00	.....	.....	.....
7615	9.85	.....	0.56	.....	3.65	.....	4.21	.....	1.17	0.85
7746	9.80	.....	0.37	0.43	3.56	.....	4.36	.....	1.75	0.95
.....	10.00	Bn, G	.....	.....	4.00	Bl, Bn, Fs, G	4.00	.....	1.00	.....
7747	9.25	.....	.....	.....	3.10	.....	3.10	.....	0.65	.....
.....	10.00	Bat, G, Bn, Fs, Sheep manure	.....	.....	3.00	Bat, G, Bn, Fs	3.00	.....	1.00	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	General Fertilizer Assn., San Bernardino, Cal. (Continued)			
7843	Shamrock Citrus Grower	J. Henry Reynolds, Redlands		40.75
	Guaranteed			46.00
7741	Shamrock Crop Grower	J. Henry Reynolds, Redlands		40.57
	Guaranteed			51.20
7745	Shamrock Crop Grower	R. O. Stearns, Orange		56.46
7833	Shamrock Crop Grower	J. Henry Reynolds, Redlands		51.02
	Guaranteed			54.20
7845*	Shamrock Fish Meal	J. Henry Reynolds, Redlands		86.72
	Guaranteed			90.90
7879*	Shamrock Fish Meal	I. L. Lyon & Sons, Redlands		89.11
	Guaranteed			91.95
7742	Shamrock Orange Builder	J. Henry Reynolds, Redlands		53.32
7840	Shamrock Orange Builder	J. Henry Reynolds, Redlands		40.47
7903	Shamrock Orange Builder	J. E. Schermerhorn, Colton		46.66
	Guaranteed			49.00
7834	Shamrock Rejuvenator	J. Henry Reynolds, Redlands		64.24
7890	Shamrock Rejuvenator	F. J. Paddock, Covina		65.11
	Guaranteed			62.20
7893	Shamrock Rejuvenator	H. L. Hostetler, Covina		54.25
	Guaranteed			56.20
7905	Shamrock Special Mixture	W. & M. Marks, Lemon Cove		52.58
7956	Shamrock Special Mixture	W. & M. Marks, Lemon Cove		54.07
	Guaranteed			56.00
7768*	Shamrock Special Tankage	Factory, San Bernardino		71.34
	Guaranteed			75.20
7617*	Shamrock Tankage	J. Henry Reynolds, Redlands		74.88
7832*	Shamrock Tankage	J. Henry Reynolds, Redlands		77.63
7888*	Shamrock Tankage	H. L. Hostetler, Covina		76.98
7943*	Shamrock Tankage	D. G. Lee, Ontario		75.14
	Guaranteed			75.20
7942*	Shamrock Tankage	D. B. Lee, Ontario		69.93
	Guaranteed			69.20
7612	Special Mixture	J. Henry Reynolds, Redlands		53.88
7774	Special Mixture	W. H. Brooks, San Fernando		57.00
	Guaranteed			49.00
7703	Special Mixture	H. L. Hostetler, Covina		50.00
	Guaranteed			46.00
7711	Special Mixture	Factory at Ontario		70.25
	Guaranteed			62.20
7775*	Special Mixture	W. H. Brooks, San Fernando		52.59
	Guaranteed			54.20
7776*	Special Mixture	W. H. Brooks, San Fernando		78.22
	Guaranteed			75.20
7777	Special Mixture	W. H. Brooks, San Fernando		38.75
	Guaranteed			41.00
7906*	Whale Meat	E. D. Boone, Upland		83.96
	Guaranteed			87.46

* 7845—58% fine.

* 7879—74% fine.

* 7768—76% fine.

* 7617—71% fine.

* 7832—71% fine.

* 7775—Sodium nitrate crystals present but not mentioned in guarantee.

* 7888—61% fine.

* 7943—72% fine.

* 7942—Mixed fertilizer mislabeled Tankage.

* 7776—62% fine as tankage.

* 7906—83% fine.

Lab. No.	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN					POTASH		
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLORIN
7843	9.30	.....	0.65	.....	3.06	.....	3.71	.....	0.97	0.57
.....	10.00	<i>Bn, G</i>	.....	.....	4.00	<i>Bl, Bn, Fs, G</i>	4.00	.....	1.00	.....
7741	7.15	.....	0.72	.....	3.37	.....	4.09	.....	0.69	.....
.....	8.00	<i>Bn, Fs, G</i>	.....	.....	5.00	<i>Bl, Bn, Fs, G</i>	5.00	.....	1.00	.....
7745	8.00	.....	.....	0.41	4.97	.....	5.38	.....	1.15	.....
7833	7.30	.....	0.62	.....	4.30	.....	4.92	.....	1.10	0.85
.....	8.00	<i>Bat, G, Bn, Fs, Sheep manure</i>	.....	.....	5.00	<i>Bat, G, Bn, Fs</i>	5.00	.....	1.00	.....
7845	8.80	.....	.....	.....	9.30	.....	9.30	.....	.....	.....
.....	7.96	.....	.....	.....	9.97	.....	9.97	.....	.....	.....
7879	7.65	.....	.....	.....	9.80	.....	9.80	.....	.....	.....
.....	7.74	.....	.....	.....	10.14	.....	10.14	.....	.....	.....
7742	10.50	.....	.....	0.38	4.05	.....	4.43	.....	1.44	0.95
7840	9.30	.....	0.98	.....	2.41	.....	3.39	.....	1.09	0.75
7903	9.80	.....	0.61	.....	3.32	.....	3.93	.....	1.11	.....
.....	10.00	<i>Bat, G, Bn, Fs, Sheep manure</i>	.....	.....	4.00	<i>Bat, G, Bn, Fs</i>	4.00	.....	1.00	.....
7834	7.85	.....	.....	.....	6.09	.....	6.09	.....	1.51	0.70
7890	8.30	.....	.....	.....	6.24	.....	6.24	.....	1.19	1.17
.....	8.00	<i>Bat, G, Bn, Fs, T</i>	.....	.....	6.00	<i>Bat, G, Bl, Fs, T</i>	6.00	.....	1.00	.....
7893	7.40	.....	2.16	.....	3.66	.....	5.82	.....	1.27	0.85
.....	8.00	<i>Bat, G, Bn, Fs, T</i>	2.00	.....	4.00	<i>Bat, G, Bl, Fs, T</i>	6.00	.....	1.00	.....
7905	9.75	.....	.....	.....	2.98	.....	2.98	.....	5.03	2.10
7956	9.70	.....	.....	.....	2.86	.....	2.86	.....	5.87	1.12
.....	10.00	<i>Bat, G, Fs, Bn, T</i>	.....	.....	3.00	<i>Bat, G, Fs, Bl, T</i>	3.00	.....	6.00	.....
7768	7.70	.....	.....	.....	7.57	.....	7.57	.....	.....	.....
.....	8.00	.....	.....	.....	8.00	.....	8.00	.....	.....	.....
7617	8.40	.....	.....	.....	7.89	.....	7.89	.....	.....	.....
7832	8.25	.....	.....	.....	8.26	.....	8.26	.....	.....	.....
7888	7.90	.....	.....	.....	8.24	.....	8.24	.....	.....	.....
7943	8.30	.....	.....	.....	7.94	.....	7.94	.....	.....	.....
.....	8.00	.....	.....	.....	8.00	.....	8.00	.....	.....	.....
7942	6.60	.....	1.93	.....	6.38	.....	8.31	.....	.....	.....
.....	8.00	<i>Bn, Fs</i>	2.00	.....	6.00	<i>Bl, Fs, T</i>	8.00	.....	.....	.....
7612	10.50	.....	.....	.....	4.23	.....	4.23	.....	1.78	1.10
7774	11.85	.....	0.65	0.51	3.58	.....	4.74	.....	1.99	0.67
.....	10.00	<i>G, T</i>	.....	.....	4.00	<i>Bl, Bn, G</i>	4.00	.....	1.00	.....
7703	10.70	.....	.....	0.30	4.19	.....	4.49	.....	0.93	0.62
.....	10.00	<i>G, T</i>	.....	.....	4.00	<i>Bl, Bn, G</i>	4.00	.....	1.00	.....
7711	8.90	.....	.....	.....	6.62	.....	6.62	.....	1.61	0.72
.....	8.00	<i>Bn, G</i>	.....	.....	6.00	<i>Bl, Bn, Fs, G, T</i>	6.00	.....	1.00	.....
7775	8.25	.....	1.58	.....	3.61	.....	5.19	.....	1.42	1.52
.....	8.00	<i>G, T</i>	.....	.....	5.00	<i>Bl, Bn, G</i>	5.00	.....	1.00	.....
7776	8.50	.....	.....	.....	8.29	.....	8.29	.....	.....	.....
.....	8.00	<i>Bn, G</i>	.....	.....	8.00	<i>Bl, Bn, Fs, G, T</i>	8.00	.....	.....	.....
7777	9.05	.....	2.26	.....	1.30	.....	3.56	.....	1.46	0.75
.....	10.00	<i>G, T</i>	.....	.....	3.00	<i>Bl, Bn, G</i>	3.00	.....	1.00	.....
7906	8.60	.....	.....	.....	8.99	.....	8.99	.....	.....	.....
.....	9.16	.....	.....	.....	.....	.....	9.33	.....	.....	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
Germain Seed and Plant Co., Los Angeles, Cal.				
7686	Blood and Bone	Manufacturer		38.07
	Guaranteed			35.20
7687*	Fish Meal	Manufacturer		80.61
	Guaranteed			73.80
7688*	Fish Meal No. 2	Manufacturer		72.27
	Guaranteed			64.40
7740	Nuvida Brand	Harris Seed Co., San Diego		53.43
	Guaranteed			40.00
7684	Nuvida Lawn and Garden	Manufacturer		40.65
	Guaranteed			44.00
7885	Nuvida Lawn and Garden	Manufacturer		42.11
	Guaranteed			38.00
7685	Nuvida Vegetable	Manufacturer		44.51
	Guaranteed			46.20
7883*		Manufacturer		57.41
	Guaranteed			50.10
7884*		Manufacturer		47.59
	Guaranteed			42.20
Hauser Packing Co., Los Angeles, Cal.				
7743	Blood	E. N. Nahmens, Redlands		107.91
	Guaranteed			108.00
7783	Blood	G. W. Fuhr, Azusa		123.30
	Guaranteed			112.50
7861	Blood	E. N. Nahmens, Redlands		104.58
	Guaranteed			102.78
7930	Blood	J. H. Quick, Azusa		124.65
	Guaranteed			123.75
7946	Blood	C. E. McLaughlin		89.64
	Guaranteed			95.58
7947	Blood	C. E. McLaughlin		123.12
	Guaranteed			122.85
7951	Blood	Jamison MacDonald		116.01
	Guaranteed			115.74
7952	Blood	Mrs. MacDonald		124.38
	Guaranteed			121.50
7955*	Blood	George W. McKinnon, Pomona		88.05
	Guaranteed			103.84
7959	Blood	C. H. Featherston, Glendora		108.09
	Guaranteed			109.26
7646*	Bone Meal	W. B. Gemmill, Rialto		66.56
	Guaranteed			57.60
7647*	Bone Meal	W. B. Gemmill, Rialto		65.20
7860*	Bone Meal	E. N. Nahmens, Redlands		65.32
	Guaranteed			64.20
7648*	Bone Meal	W. B. Gemmill, Rialto		51.54
7693*	Bone Meal	Clarence Milligan		53.58
7787*	Bone Meal	G. W. Fuhr, Azusa		52.96
7792*	Bone Meal	Thomas Chisholm, Pasadena		54.24
	Guaranteed			53.80

* 7687—77% fine.

* 7688—61% fine.

* 7883—No brand name in violation of California Fertilizer Act.

* 7884—No brand name in violation of California Fertilizer Act.

* 7955—Sample mislabeled, apparently fish meal, 93% fine.

* 7646—36% fine.

* 7647—33% fine.

* 7860—29% fine.

* 7648—58% fine.

* 7693—61% fine.

* 7787—69% fine.

* 7792—63% fine.

Lab. No.	PHOSPHORIC ACID				NITROGEN				POTASH		
	Available	Insoluble	Total	Guaranteed as derived from	In Nitrates	In Ammonia Salts	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLORIN
7686	3.25	4.80	8.05				3.35		3.35		
	3.00	5.00	8.00	Bn			3.00	Bl, Bn	3.00		
7687			5.75				9.07		9.07		
			7.00				8.00		8.00		
7688			6.25				7.94		7.94		
			6.00				7.00		7.00		
7740	8.20	2.30	10.50		0.53		4.51		5.04		
	10.00				2.00		2.00	Bl, Fs	4.00		
7684	9.32	0.88	10.20		1.97		1.30		3.27	2.04	1.85
			10.00						3.00	2.00	
7885	7.06	2.64	9.70		0.53		2.53		3.06	1.88	2.07
	10.00				2.00		1.00	Fs	3.00	2.00	
7685	7.15	1.10	8.25		2.26		2.25		4.51	1.22	1.17
			8.00						4.00	1.00	
7883	8.16	0.94	9.10		2.63		2.20		4.83	4.64	
	8.00	1.00	9.00	Super	3.50		1.00	Fs	4.50	4.00	
7884	6.49	1.96	8.45		4.08		1.20		5.28	1.92	1.42
	7.00	1.00	8.00	Super	4.00		1.00	Fs	5.00	1.00	
7743							11.99		11.99		
							12.00		12.00		
7783							13.70		13.70		
							12.50		12.50		
7861							11.62		11.62		
							11.42		11.42		
7930							13.85		13.85		
							13.75		13.75		
7946							9.96		9.96		
							10.62		10.62		
7947							13.68		13.68		
							13.65		13.65		
7951							12.89		12.89		
							12.86		12.86		
7952							13.82		13.82		
							13.50		13.50		
7955			5.75				10.00		10.00		
							12.98		12.98		
7959							12.01		12.01		
							12.14		12.14		
7646			23.60				4.19		4.19		
			24.00				3.00		3.00		
7647			22.80				4.16		4.16		
7860			23.00				4.14		4.14		
			23.00				4.00		4.00		
7648			29.50				1.28		1.28		
7693			30.90				1.29		1.29		
7787			33.20				0.81		0.81		
7792			31.20				1.32		1.32		
			27.00				2.00		2.00		

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Hauser Packing Co., Los Angeles, Cal.			
	<i>(Continued)</i>			
7788*	Fish Meal	G. W. Fuhr, Azusa		68.48
	<i>Guaranteed</i>			80.40
7782	Nitrate of Soda	G. W. Fuhr, Azusa		76.80
7902	Nitrate of Soda	E. N. Nahmens, Redlands		75.15
	<i>Guaranteed</i>			75.00
7791	Special Big Gun	G. W. Fuhr, Azusa		82.45
7899	Special Big Gun	J. C. Boyd, Rialto		74.48
	<i>Guaranteed</i>			85.60
7944	Special Big Gun	W. C. Kelley		78.07
	<i>Guaranteed</i>			82.60
7784	Special Mixture	G. W. Fuhr, Azusa		43.00
	<i>Guaranteed</i>			44.20
7786	Special Mixture	G. W. Fuhr, Azusa		37.89
	<i>Guaranteed</i>			36.00
7781	Sulfate of Ammonia	G. W. Fuhr, Azusa		103.00
	<i>Guaranteed</i>			103.75
7904	Sulfate of Ammonia	H. D. Meyer, Pasadena		104.20
	<i>Guaranteed</i>			102.50
7636*	Tankage	G. A. Hanson, Upland		49.82
	<i>Guaranteed</i>			51.20
7643*	Tankage	W. B. Gimmell, Rialto		46.42
7920*	Tankage	S. G. Rossiter, Rialto		46.53
	<i>Guaranteed</i>			46.00
7644*	Tankage	W. B. Gimmell, Rialto		79.88
	<i>Guaranteed</i>			85.60
7645*	Tankage	W. B. Gimmell, Rialto		69.75
7910*	Tankage	R. H. Edrington, Azusa		68.20
7913*	Tankage	E. B. Griffith, Azusa		73.89
7925*	Tankage	B. W. Barnhart, Claremont		65.91
7929*	Tankage	J. M. Riley Fruit Co., Covina		69.61
7940*	Tankage	Azusa Foothill Citrus Co., Azusa		74.76
7941*	Tankage	Azusa Foothill Citrus Co., Azusa		69.46
7950*	Tankage	Azusa Foothill Citrus Co., Azusa		67.40
7960*	Tankage	R. H. Edrington, Azusa		67.56
	<i>Guaranteed</i>			75.20
7709*	Tankage	E. N. Nahmens, Redlands		60.91
	<i>Guaranteed</i>			62.00
7722*	Tankage	Miss I. Demens, Alta Loma		46.55
	<i>Guaranteed</i>			43.20
7744*	Tankage	E. N. Nahmens, Redlands		74.25
	<i>Guaranteed</i>			73.65
7789*	Tankage	G. W. Fuhr, Azusa		84.40
	<i>Guaranteed</i>			80.13
7790*	Tankage	G. W. Fuhr, Azusa		66.20
	<i>Guaranteed</i>			64.80
7867*	Tankage	E. N. Nahmens, Redlands		69.35
7901*	Tankage	Miss V. E. Mattice, Redlands		63.07
7957*	Tankage	Miss V. E. Mattice, Redlands		64.17
	<i>Guaranteed</i>			68.60
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* 7788—81% fine.	* 7925—76% fine.	* 7722—79% fine.		
* 7736—66% fine.	* 7929—75% fine.	* 7744—73% fine.		
* 7643—72% fine.	* 7940—80% fine.	* 7789—78% fine.		
* 7920—76% fine.	* 7941—72% fine.	* 7790—72% fine.		
* 7644—76% fine.	* 7950—70% fine.	* 7867—80% fine.		
* 7645—75% fine.	* 7960—70% fine.	* 7901—79% fine.		
* 7910—74% fine.	* 7709—75% fine.	* 7957—76% fine.		
* 7913—74% fine.				

Lab. No.	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN				Total	POTASH		CHLORIN
	Available	Insoluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from		From Sulfate	Total	
7788	7.20	.....	.....	.....	7.30	.....	7.30	.....	.....	.....
.....	6.00	.....	.....	.....	9.00	.....	9.00	.....	.....	.....
7782	15.36	.....	.....	.....	15.36	.....	.....	.....
7902	15.03	.....	.....	.....	15.03	.....	.....	.....
.....	15.00	.....	.....	.....	15.00	.....	.....	.....
7791	6.90	.....	.....	1.07	8.43	.....	9.50	.....	.....	.....
7899	5.15	.....	.....	1.31	7.59	.....	8.90	.....	.....	.....
.....	4.00	<i>T</i>	.....	.....	.....	<i>T</i>	10.00	.....	.....	.....
7944	6.15	.....	.....	2.34	7.22	.....	9.56	.....	.....	.....
.....	4.00	.....	.....	1.00	9.00	.....	10.00	.....	.....	.....
7784	8.85	.....	.....	1.30	1.71	.....	3.01	.....	3.51	1.47
.....	8.00	<i>Bn, Super, T</i>	.....	1.00	2.00	<i>Bl, Bn, T</i>	3.00	4.00	4.00	.....
7786	13.10	.....	.....	.....	2.02	.....	2.02	1.13	1.13	.....
.....	15.00	<i>Bn, Super, T</i>	.....	.....	1.50	<i>Bl, Bn, T</i>	1.50	1.00	1.00	.....
7781	20.60	.....	.....	.....	20.60	.....	.....	.....
.....	20.75	.....	.....	.....	20.75	.....	.....	.....
7904	20.84	.....	.....	.....	20.84	.....	.....	.....
.....	20.50	.....	.....	.....	20.50	.....	.....	.....
7636	9.30	.....	.....	.....	4.60	.....	4.60	.....	.....	.....
.....	8.00	.....	.....	.....	5.00	.....	5.00	.....	.....	.....
7643	9.90	.....	.....	.....	4.07	.....	4.07	.....	.....	.....
7920	11.75	.....	.....	.....	3.76	.....	3.76	.....	.....	.....
.....	10.00	.....	.....	.....	4.00	.....	4.00	.....	.....	.....
7644	6.20	.....	.....	.....	8.90	.....	8.90	.....	.....	.....
.....	4.00	.....	.....	.....	10.00	.....	10.00	.....	.....	.....
7645	8.85	.....	.....	.....	7.17	.....	7.17	.....	.....	.....
7910	8.20	.....	.....	.....	7.09	.....	7.09	.....	.....	.....
7913	8.15	.....	.....	.....	7.81	.....	7.81	.....	.....	.....
7925	8.45	.....	.....	.....	6.76	.....	6.76	.....	.....	.....
7929	8.75	.....	.....	.....	7.17	.....	7.17	.....	.....	.....
7940	7.80	.....	.....	.....	7.98	.....	7.98	.....	.....	.....
7941	9.10	.....	.....	.....	7.09	.....	7.09	.....	.....	.....
7950	8.20	.....	.....	.....	6.99	.....	6.99	.....	.....	.....
7960	9.40	.....	.....	.....	6.80	.....	6.80	.....	.....	.....
.....	8.00	.....	.....	.....	8.00	.....	8.00	.....	.....	.....
7709	8.65	.....	.....	.....	6.10	.....	6.10	.....	.....	.....
.....	10.00	.....	.....	.....	6.00	.....	6.00	.....	.....	.....
7722	9.25	.....	.....	.....	4.20	.....	4.20	.....	.....	.....
.....	8.00	.....	.....	.....	4.00	.....	4.00	.....	.....	.....
7744	9.15	.....	.....	.....	7.68	.....	7.68	.....	.....	.....
.....	9.75	.....	.....	.....	7.50	.....	7.50	.....	.....	.....
7789	9.60	.....	.....	.....	8.87	.....	8.87	.....	.....	.....
.....	10.15	.....	.....	.....	8.24	.....	8.24	.....	.....	.....
7790	13.00	.....	.....	.....	6.00	.....	6.00	.....	.....	.....
.....	12.00	.....	.....	.....	6.00	.....	6.00	.....	.....	.....
7867	9.65	.....	.....	.....	6.98	.....	6.98	.....	.....	.....
7901	9.45	.....	.....	.....	6.23	.....	6.23	.....	.....	.....
7957	8.35	.....	.....	.....	6.56	.....	6.56	.....	.....	.....
.....	9.00	.....	.....	.....	7.00	.....	7.00	.....	.....	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND	FROM WHOM OBTAINED	Value per ton
Hauser Packing Co., Los Angeles, Cal.			
<i>(Continued)</i>			
7882*	Tankage	Germain Seed and Plant Co., Los Angeles	44.05
	<i>Guaranteed</i>		47.00
7919*	Tankage	S. G. Rossiter, Rialto	52.76
	<i>Guaranteed</i>		61.00
7928*	Tankage	J. M. Riley Fruit Co., Azusa	84.21
	<i>Guaranteed</i>		84.40
Hawaiian Fertilizer Co., Ltd., San Francisco, Cal.			
7891	Tankage and Ammonia Mixt.	R. H. Cochrane, Redlands	64.45
	<i>Guaranteed</i>		79.60
7825	Lawn Fertilizer	Edward F. Adams, San Francisco	44.15
	<i>Guaranteed</i>		36.80
Mountain Copper Co., San Francisco, Cal.			
7723	Superphosphate	Pacific Wood and Coal Co., San Diego	20.35
	<i>Guaranteed</i>		21.54
Oakland Meat & Packing Co., Emeryville, Cal.			
7800	Empire	Forrest Manning, Azusa	68.06
	<i>Guaranteed</i>		65.20
Pacific Bone, Coal & Fertilizing Co., San Francisco, Cal.			
7965	Special	Miss I. Demens, Alta Loma	53.95
	<i>Guaranteed</i>		56.80
7892	Special Nursery Stock	Highland Exchange Assn., Highland	40.95
	<i>Guaranteed</i>		38.90
7958	Tankage and Nitrate of Am.	Citrus Fruit Assn., Ontario	66.29
	<i>Guaranteed</i>		68.96
7914	Tankage and Nitrate of Am.	P. A. Demens, Alta Loma	68.83
	<i>Guaranteed</i>		82.25
Pacific Guano & Fertilizer Co., San Francisco, Cal.			
7712	Blood	Harry Scott, Rialto	115.29
7736	Blood	R. H. Winn, San Diego	112.59
	<i>Guaranteed</i>		114.03
7698	Blood	Grant Chapman, Covina	120.96
	<i>Guaranteed</i>		122.67
7630*	Bone Meal	W. F. Scott, Orange	60.38
7697*	Bone Meal	A. M. Seeley, Covina	64.14
7770*	Bone Meal	John Blake, Pasadena	43.86
7818*	Bone Meal	Manufacturer's Warehouse	64.04
	<i>Guaranteed</i>		60.40
7715*	Bone Meal	Harry Scott, Rialto	64.92
7735*	Bone Meal	R. H. Winn, San Diego	62.88
7764*	Bone Meal	E. F. Struve, Pomona	61.86
	<i>Guaranteed</i>		60.82
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* 7882—76% fine.		* 7697—52% fine.	
* 7919—74% fine.		* 7770—58% fine.	
* 7928—81% fine.		* 7818—52% fine.	
* 7630—57% fine.		* 7715—47% fine.	
		* 7735—48% fine.	
		* 7764—56% fine.	

Lab. No.	PHOSPHORIC ACID				NITROGEN					POTASH		
	Avail- able	In- soluble	Total	Guaranteed as derived from	In Ni- trates	In Am- monia Salts	Or- ganic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLO- RIN
7882	5.35	.....	.....	.....	4.57	.....	4.57	.....	.....	.....
.....	5.00	.....	.....	.....	5.00	.....	5.00	.....	.....	.....
7919	16.60	.....	.....	.....	3.69	.....	3.69	.....	.....	.....
.....	15.00	.....	.....	.....	5.00	.....	5.00	.....	.....	.....
7928	10.15	.....	.....	.....	8.75	.....	8.75	.....	.....	.....
.....	9.60	.....	.....	.....	8.87	.....	8.87	.....	.....	.....
7891	5.40	.....	3.18	3.91	2.68	.....	9.87	.....	.....	.....
.....	4.00	.....	2.00	.....	8.00	.....	10.00	.....	.....	.....
7825	5.45	1.30	6.75	.....	1.28	1.23	1.82	.....	4.33	.....	2.53	2.62
.....	7.00	<i>Super, Bn, T</i>	4.50	.....	.....	.....	4.50	1.50	1.50	.....
7723	16.96	0.74	17.70	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	17.95	0.40	18.35	.....	.....	.....	.....	.....	.....	.....	.....	.....
7800	7.75	.....	.....	.....	6.33	.....	6.33	2.19	2.19	0.75
.....	8.00	<i>Bn, Super</i>	.....	.....	6.00	<i>Animal matter</i>	6.00	2.00	2.00	.....
7965	12.05	.....	.....	2.04	3.36	.....	5.40	.....	.....	.....
.....	12.00	.....	.....	.....	.....	.....	5.00	.....	.....	.....
7892	8.84	2.46	11.30	.....	2.18	0.91	1.21	.....	4.30	.....	.....	.....
.....	9.00	2.00	11.00	<i>Bn, Super</i>	2.35	0.75	1.00	<i>Bl, Bn, T</i>	4.10	.....	.....	.....
7958	8.70	.....	2.50	2.13	3.87	.....	8.50	.....	.....	.....
.....	9.05	.....	.....	8.66	.....	.....	8.66	.....	.....	.....
7914	8.20	.....	2.40	3.15	3.70	.....	9.25	.....	.....	.....
.....	8.75	.....	.....	.....	8.75	.....	8.75	.....	.....	.....
7712	12.81	.....	12.81	.....	.....	.....
7736	12.51	.....	12.51	.....	.....	.....
.....	12.67	.....	12.67	.....	.....	.....
7698	13.44	.....	13.44	.....	.....	.....
.....	13.63	.....	13.63	.....	.....	.....
7630	21.70	.....	.....	.....	.....	3.75	.....	3.75	.....	.....	.....
7697	22.10	.....	.....	.....	.....	4.15	.....	4.15	.....	.....	.....
7770	15.50	.....	.....	.....	.....	2.77	.....	2.77	.....	.....	.....
7818	22.60	.....	.....	.....	.....	4.05	.....	4.05	.....	.....	.....
.....	22.00	.....	.....	.....	.....	3.70	.....	3.70	.....	.....	.....
7715	22.20	.....	.....	.....	.....	4.23	.....	4.23	.....	.....	.....
7735	22.80	.....	.....	.....	.....	3.87	.....	3.87	.....	.....	.....
7764	21.50	.....	.....	.....	.....	3.97	.....	3.97	.....	.....	.....
.....	22.30	.....	.....	.....	.....	3.70	.....	3.70	.....	.....	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Pacific Guano & Fertilizer Co., San Francisco, Cal. (Continued)			
7716*	Bone Meal, Steamed	Harry Scott, Rialto	58.76	
	Guaranteed		57.32	
7720*	Bone Meal, Steamed	Harry Scott, Rialto	62.10	
	Guaranteed		60.00	
7717*	Bone Tankage	Harry Scott, Rialto	62.24	
	Guaranteed		59.78	
7721*	Bone Tankage	Harry Scott, Rialto	74.38	
	Guaranteed		71.00	
7719	Fall Crop Maker	Harry Scott, Rialto	48.72	
7765	Fall Crop Maker	E. F. Struve, Pomona	48.32	
7837	Fall Crop Maker	R. E. Fairchild, Redlands	47.60	
	Guaranteed		45.50	
7816*	Fish Meal	Manufacturer's Retail Warehouse	86.58	
	Guaranteed		84.14	
7817*	Fish Meal	Manufacturer's Warehouse	79.50	
	Guaranteed		78.15	
7815*	Fish Meal (S. D.)	Manufacturer's Warehouse	61.18	
	Guaranteed		57.80	
7838	Gaviota A1 Crop Maker	R. E. Fairchild, Redlands	63.24	
	Guaranteed		65.40	
7737	Gaviota Lawn & Gar. Dressing..	R. H. Winn, San Diego	31.54	
	Guaranteed		33.50	
7631	Gaviota Special	W. F. Scott, Orange	69.19	
7638	Gaviota Special	Wilson & Hickox, Upland	68.78	
7695	Gaviota Special	A. M. Seeley, Covina	67.15	
7713	Gaviota Special	Harry Scott, Rialto	65.99	
	Guaranteed		65.40	
7635*	Gaviota Special	W. F. Scott, Orange	68.74	
	Guaranteed		71.40	
7637	Gaviota Special	Wilson & Hickox, Upland	64.78	
7763	Gaviota Special	E. F. Struve, Pomona	69.59	
7766	Gaviota Special	E. F. Struve, Pomona	64.89	
	Guaranteed		60.60	
7813	Gaviota Special	Manufacturer's Warehouse	45.28	
	Guaranteed		41.50	
7839	Gaviota Special	R. E. Fairchild, Redlands	52.64	
	Guaranteed		49.00	
7853*	Gaviota Special	W. L. Fischer, Riverside	38.29	
	Guaranteed		40.00	
7912	Gaviota Special	T. E. Ketcheson, Upland	67.48	
	Guaranteed		65.40	
7939	Gaviota Special	J. F. Burns, Escondido	46.05	
	Guaranteed		46.00	
7964	Gaviota Special	K. Okomoto, Los Angeles	39.08	
	Guaranteed		38.60	
7739	Gaviota Special 4-8-5	R. H. Winn, San Diego	53.39	
	Guaranteed		52.20	
7659	Gaviota Special 4-9-2	Wilson & Hickox, Upland	41.66	
	Guaranteed		50.60	
7658	Gaviota Special 4-10-1	Wilson & Hickox, Upland	47.77	
	Guaranteed		46.00	

* 7716—57% fine.

* 7720—57% fine.

* 7816—68% fine.

* 7815—79% fine.

* 7635—No statement of derivation in violation of California Fertilizer Act.

* 7853—Sample jar broken, sample possibly invalid.

* 7717—58% fine as Bn, 87% fine as T.

* 7721—50% fine as Bn, 81% fine as T.

* 7817—89% fine.

Lab. No.	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN				POTASH		CHLORIN	
	Available	In-soluble	Total		In Nitrates	In Ammonia Salts	Organic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate		Total
7716	19.80	.....	.....	.....	3.88	.....	3.88	.....	.....	.....
.....	19.80	.....	.....	.....	3.70	.....	3.70	.....	.....	.....
7720	20.70	.....	.....	.....	4.14	.....	4.14	.....	.....	.....
.....	20.35	.....	.....	.....	3.95	.....	3.95	.....	.....	.....
7717	22.00	.....	.....	.....	3.93	.....	3.93	.....	.....	.....
.....	22.30	.....	.....	.....	3.57	.....	3.57	.....	.....	.....
7721	17.70	.....	.....	.....	6.20	.....	6.20	.....	.....	.....
.....	18.43	.....	.....	.....	5.65	.....	5.65	.....	.....	.....
7719	8.74	2.16	10.90	.....	1.04	.....	0.90	.....	1.94	.....	7.02	3.55
7765	10.85	.....	0.55	.....	1.12	.....	1.67	.....	7.14	3.30
7837	10.30	.....	0.57	.....	1.14	.....	1.71	.....	7.07	3.65
.....	10.00	Bl, Bn, Fs, G, T	0.50	.....	1.00	Bl, Bn, Fs, G, T	1.50	.....	7.00	.....
7816	5.10	.....	.....	.....	9.93	.....	9.93	.....	.....	.....
.....	5.30	.....	.....	.....	9.59	.....	9.59	.....	.....	.....
7817	8.90	.....	.....	.....	8.38	.....	8.38	.....	.....	.....
.....	9.19	.....	.....	.....	8.16	.....	8.16	.....	.....	.....
7815	5.70	.....	.....	.....	6.65	.....	6.65	.....	.....	.....
.....	7.00	.....	.....	.....	6.00	.....	6.00	.....	.....	.....
7838	11.25	.....	2.25	.....	4.53	.....	6.78	.....	.....	.....
.....	11.00	Bn, G, Super	2.00	.....	5.00	Bl, Bn, Fs, G, T	7.00	.....	.....	.....
7737	9.35	.....	1.69	.....	1.25	.....	2.94	.....	0.81	.....
.....	10.00	Bn, G, Super	1.50	.....	1.50	Bl, Bn, Fs, G, T	3.00	.....	0.50	.....
7631	10.85	.....	1.92	.....	5.55	.....	7.47	.....	.....	.....
7638	10.95	.....	2.37	.....	5.20	.....	7.57	.....	.....	.....
7695	10.55	.....	2.14	.....	5.21	.....	7.35	.....	.....	.....
7713	11.35	.....	2.50	.....	4.70	.....	7.20	.....	.....	.....
.....	11.00	Bn, G, Super	2.00	.....	5.00	Bl, Bn, Fs, G, T	7.00	.....	.....	.....
7635	11.60	.....	.....	2.58	4.95	.....	7.53	.....	.....	.....
.....	11.00	.....	.....	.....	7.00	.....	7.00	.....	.....	.....
7637	9.05	.....	1.93	.....	4.40	.....	6.33	.....	2.42	1.15
7763	8.15	.....	1.57	.....	5.53	.....	7.10	.....	2.03	1.50
7766	9.20	.....	2.50	.....	3.96	.....	6.46	.....	2.61	1.22
.....	9.00	Bn, G, Super	2.00	.....	4.00	Bl, Bn, Fs, G, T	6.00	.....	2.00	.....
7813	10.95	.....	0.91	.....	2.05	.....	2.96	.....	3.00	1.40
.....	10.00	Bn, G, Super	0.50	.....	2.00	Bl, Bn, Fs, G, T	2.50	.....	3.00	.....
7839	9.45	.....	1.52	.....	2.84	.....	4.36	.....	3.03	0.80
.....	10.00	Bn, G, Super	1.00	.....	3.00	Bl, Bn, Fs, G, T	4.00	.....	2.00	.....
7853	10.00	.....	3.00	.....	0.76	.....	3.76	.....	1.07	.....
.....	10.00	Bn, G, Super	3.00	.....	1.00	Bl, Bn, Fs, G, T	4.00	.....	1.00	.....
7912	12.00	.....	2.36	.....	4.86	.....	7.22	.....	.....	.....
.....	11.00	Bn, G, Super	2.00	.....	5.00	Bl, Bn, Fs, G, T	7.00	.....	.....	.....
7939	10.35	.....	1.27	.....	2.69	.....	3.96	.....	1.23	0.90
.....	10.00	Bn, G, Super	1.00	.....	3.00	Bl, Bn, Fs, G, T	4.00	.....	1.00	.....
7964	8.63	1.02	9.65	.....	3.95	.....	.....	.....	3.95	.....	1.94	1.10
.....	9.00	G, Super	4.00	.....	.....	.....	4.00	.....	2.00	.....
7739	8.45	.....	1.63	.....	2.29	.....	3.92	5.03	5.03	0.65
.....	8.00	Bn, G, Super	2.00	.....	2.00	Bl, Bn, Fs, G, T	4.00	5.00	5.00	.....
7659	9.15	.....	2.80	0.31	0.83	.....	3.94	.....	2.22	1.50
.....	9.00	Bn, G, Super	.....	.....	.....	.....	4.00	.....	2.00	.....
7658	9.50	.....	1.35	.....	2.88	.....	4.25	.....	1.56	0.67
.....	10.00	Bn, G, Super	1.00	.....	3.00	Bl, Bn, Fs, G, T	4.00	.....	1.00	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Pacific Guano & Fertilizer Co., San Francisco, Cal.			
	<i>(Continued)</i>			
7634*	Gaviota Special 6-9-2	W. F. Scott, Orange		66.07
	<i>Guaranteed</i>			66.60
7609	Gaviota Special Crop Maker	W. T. Henderson, Riverside		50.78
7696	Gaviota Special Crop Maker	A. M. Seeley, Covina		51.62
7714	Gaviota Special Crop Maker	Harry Scott, Rialto		51.03
7826	Gaviota Special Crop Maker	J. W. Corwin, Hyland		46.44
7836	Gaviota Special Crop Maker	W. H. Wyckoff, Redlands		48.94
	<i>Guaranteed</i>			46.00
7809	Gaviota Spec. Lawn & Garden	Manufacturer's Warehouse		49.36
	<i>Guaranteed</i>			40.20
7633	Gaviota Superphosphate	W. F. Scott, Orange		23.14
	<i>Guaranteed</i>			20.40
7780	Lawn and Garden	Union Commission Co., Santa Barbara		38.62
7808	Lawn and Garden	Manufacturer's Warehouse		38.74
	<i>Guaranteed</i>			33.50
7660	Nitrate of Soda	Wilson & Hickox, Upland		77.40
7750	Nitrate of Soda	Harry Scott, Rialto		78.20
7814	Nitrate of Soda	Manufacturer's Warehouse		76.80
	<i>Guaranteed</i>			75.00
7732	Nitrate of Soda	R. H. Winn, San Diego		78.00
	<i>Guaranteed</i>			75.50
7762	Special Crop Maker	E. F. Struve, Pomona		51.35
	<i>Guaranteed</i>			49.00
7767	Special Crop Maker	E. F. Struve, Pomona		51.91
	<i>Guaranteed</i>			49.00
7769	Special Crop Maker	John Blake, Pasadena		45.12
	<i>Guaranteed</i>			46.00
7733	Sulfate of Ammonia	R. H. Winn, San Diego		102.60
	<i>Guaranteed</i>			102.50
7751	Sulfate of Ammonia	Harry Scott, Rialto		104.10
	<i>Guaranteed</i>			103.75
7734	Superphosphate	R. H. Winn, San Diego		19.73
	<i>Guaranteed</i>			20.40
7632*	Tankage	W. F. Scott, Orange		77.75
	<i>Guaranteed</i>			76.76
7639*	Tankage	Wilson & Hickox, Upland		85.13
	<i>Guaranteed</i>			73.90
7640*	Tankage	Wilson & Hickox, Upland		79.03
	<i>Guaranteed</i>			76.85
7718*	Tankage	Harry Scott, Rialto		67.04
	<i>Guaranteed</i>			63.02
7835*	Tankage	Mrs. J. E. Nish, Rialto		73.95
	<i>Guaranteed</i>			75.20
7962*	Tankage	G. T. Henslee, Hyland		71.90
	<i>Guaranteed</i>			69.40
	Pacific Wood & Coal Co., San Diego, Cal.			
7731*	Tankage	Manufacturer		72.09
	<i>Guaranteed</i>			50.50
7730	B. G. Lawn	Manufacturer		21.36
	<i>Guaranteed</i>			23.48

* 7634—No statement of derivation in violation of California Fertilizer Act.

* 7632—76% fine.

* 7639—81% fine, some hoof.

* 7640—73% fine.

* 7718—86% fine.

* 7835—76% fine.

* 7962—72% fine.

* 7731—61% fine.

Lab. No.	PHOSPHORIC ACID			NITROGEN					POTASH		
	Avail-able	In-soluble	Guaranteed as derived from Total	In Ni-trates	In Am-monia Salts	Or-ganic	Organic Nitrogen guaranteed as derived from	Total	From Sulfate	Total	CHLO-RIN
7634	10.15	.....	1.06	4.86	.....	5.92	.....	2.56	1.02
.....	9.00	.....	.....	.....	.....	6.00	.....	2.00	.....
7609	10.70	0.06	10.80	.....	1.77	2.74	.....	4.51	.....	1.63	0.80
7696	9.80	.....	1.32	3.38	.....	4.70	.....	1.42	0.78
7714	10.85	.....	1.50	3.04	.....	4.54	.....	1.34	0.70
7826	9.85	.....	1.48	2.68	.....	4.16	.....	1.27	0.72
7836	10.05	.....	1.10	3.12	.....	4.22	.....	1.47	0.82
.....	10.00	<i>Bn, G, Super</i>	1.00	3.00	<i>Bl, Bn, Fs, G, T</i>	4.00	.....	1.00	.....
7809	9.40	.....	2.26	2.40	.....	4.66	.....	1.90	0.82
.....	8.00	<i>Bn, G, Super</i>	2.00	2.00	<i>Bl, Bn, Fs, G, T</i>	4.00	.....	1.00	.....
7638	19.28	0.22	19.50	.....	.....	.....	.....	.....	.....	.....	.....
.....	17.00	1.00	18.00	.....	.....	.....	.....	.....	.....	.....	.....
7780	10.00	.....	1.82	1.94	.....	3.76	.....	0.79	0.57
7808	10.05	.....	1.75	1.99	.....	3.74	.....	0.66	.....
.....	10.00	<i>Bn, G, Super</i>	1.50	1.50	<i>Bl, Bn, Fs, G, T</i>	3.00	.....	0.50	.....
7660	15.48	.....	.....	.....	15.48	.....	.....	.....
7750	15.64	.....	.....	.....	15.64	.....	.....	.....
7814	15.36	.....	.....	.....	15.36	.....	.....	.....
.....	15.00	.....	.....	.....	15.00	.....	.....	.....
7732	15.60	.....	.....	.....	15.60	.....	.....	.....
.....	15.10	.....	.....	.....	15.10	.....	.....	.....
7762	4.30	6.60	10.90	.....	0.62	3.73	.....	4.35	1.05	1.05	0.55
.....	8.00	2.00	10.00	<i>Bn, G, Super</i>	.....	4.00	<i>Bl, Bn, G, T</i>	4.00	1.00	1.00	.....
7767	10.25	.....	0.89	3.61	.....	4.50	.....	1.41	1.82
.....	10.00	<i>Bn, G, Super</i>	.....	.....	<i>Bl, Bn, Fs, G, T</i>	4.00	.....	1.00	.....
7769	10.00	.....	1.36	2.44	.....	3.80	.....	1.60	0.57
.....	10.00	<i>Bn, G, Super</i>	1.00	3.00	<i>Bl, Bn, Fs, G, T</i>	4.00	.....	1.00	.....
7733	20.52	.....	.....	20.52	.....	.....	.....
.....	20.50	.....	.....	20.50	.....	.....	.....
7751	20.82	.....	.....	20.82	.....	.....	.....
.....	20.75	.....	.....	20.75	.....	.....	.....
7734	16.44	0.26	16.70	.....	.....	.....	.....	.....	.....	.....	.....
.....	17.00	1.00	18.00	.....	.....	.....	.....	.....	.....	.....	.....
7632	9.65	.....	.....	8.03	.....	8.03	.....	.....	.....
.....	11.40	.....	.....	7.60	.....	7.60	.....	.....	.....
7639	11.95	.....	.....	8.55	.....	8.55	.....	.....	.....
.....	12.90	.....	.....	6.98	.....	6.98	.....	.....	.....
7640	5.25	.....	.....	8.96	.....	8.96	.....	.....	.....
.....	5.75	.....	.....	8.60	.....	8.60	.....	.....	.....
7718	23.20	.....	.....	4.32	.....	4.32	.....	.....	.....
.....	23.30	.....	.....	3.80	.....	3.80	.....	.....	.....
7835	7.45	.....	.....	7.94	.....	7.94	.....	.....	.....
.....	8.00	.....	.....	8.00	.....	8.00	.....	.....	.....
7962	10.10	.....	.....	7.22	.....	7.22	.....	.....	.....
.....	11.00	.....	.....	6.75	.....	6.75	.....	.....	.....
7731	16.35	.....	.....	6.15	.....	6.15	.....	.....	.....
.....	7.50	.....	.....	5.00	.....	5.00	.....	.....	.....
7730	4.81	1.14	5.95	.....	1.34	0.45	.....	2.30	1.46	1.46	.....
.....	4.50	0.50	5.00	<i>Bn, Super</i>	.....	.....	<i>Bat, G, Bn, Bl, T</i>	2.06	0.75	0.75	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Rogers, Brown & Co., Los Angeles, Cal.			
7804*	Fish Tankage	W. M. Warren, Covina		77.52
	Guaranteed			94.14
7896*	Fish Tankage	J. H. Simpson, Covina		89.42
	Guaranteed			88.83
7916*	Fish Tankage	J. H. Simpson, Covina		87.98
	Guaranteed			88.91
7619*	Steam Bone Meal	J. Henry Reynolds, Redlands		57.60
7881*	Steam Bone Meal	Germain Seed and Plant Co.		56.48
	Guaranteed			53.80
7823*	Steam Bone Meal	Aggeler & Musser Seed Co., Los Angeles		55.48
	Guaranteed			61.40
7805*	Mixed Tankage	W. M. Warren, Covina		72.63
	Guaranteed			78.97

**Southern California
Fertilizer Co.,
Los Angeles, Cal.**

7629	Banner	E. A. Moore, Redlands	47.76
7641	Banner	H. C. Lash, Rialto	40.14
7690	Banner	J. F. Jackson, Riverside	46.95
	<i>Guaranteed</i>		42.55
7676	Banner	H. Little, Upland	48.07
7682	Banner	G. R. Tyler, Pomona	39.53
	<i>Guaranteed</i>		41.80
7868	Banner	C. L. Small, Riverside	45.18
	<i>Guaranteed</i>		43.80
7900	Eagle Brand	J. C. Boyd, Rialto	55.74
	<i>Guaranteed</i>		54.70
7610	Fruiting	E. A. Moore, Redlands	32.15
7642	Fruiting	H. C. Lash, Rialto	33.19
7678	Fruiting	H. Little, Upland	32.42
7681	Fruiting	G. R. Tyler, Pomona	35.86
7691	Fruiting	J. F. Jackson, Riverside	32.73
	<i>Guaranteed</i>		33.80
7683*	Garbage Tankage	G. R. Tyler, Pomona .....	.....
7692*	Garbage Tankage	J. F. Jackson, Riverside .....	.....
7759*	Garbage Tankage	Mrs. James Fleming, San Bernardino .....	.....
7803*	Garbage Tankage	W. M. Warren, Covina .....	.....
	<i>Guaranteed</i> .....		.....
7627	Reliable	E. A. Moore, Redlands	31.01
7679	Reliable	H. Little, Upland	33.32
7680	Reliable	G. R. Tyler, Pomona	34.60
7689	Reliable	J. F. Jackson, Riverside	30.37
7801	Reliable	J. A. Adair, Glendora	29.59
	<i>Guaranteed</i>		29.70
7694	Sulfate of Ammonia	J. F. Jackson, Riverside	104.20
	<i>Guaranteed</i>		102.50

* 7804—76% fine.

* 7896—63% fine.

* 7916—48% fine.

* 7619—61% fine.

* 7881—65% fine.

* 7823—63% fine.

* 7805—50% fine.

* 7683—60% fine.

* 7692—55% fine.

* 7759—45% fine.

* 7803—47% fine.

Lab. No.	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN				Total	POTASH		CHLO- RIN
	Avail- able	In- soluble	Total		In Ni- trates	In Am- monia Salts	Or- ganic	Organic Nitrogen guaranteed as derived from		From Sulfate	Total	
7804	.....	.....	6.00	.....	.....	.....	8.64	.....	8.64	.....	.....	.....
.....	.....	.....	7.30	.....	.....	.....	10.49	.....	10.49	.....	.....	.....
7896	.....	.....	7.30	.....	.....	.....	9.90	.....	9.90	.....	.....	.....
.....	.....	.....	7.22	.....	.....	.....	9.84	.....	9.84	.....	.....	.....
7916	.....	.....	8.10	.....	.....	.....	9.58	.....	9.58	.....	.....	.....
.....	.....	.....	8.59	.....	.....	.....	9.61	.....	9.61	.....	.....	.....
7619	.....	.....	28.40	.....	.....	.....	2.23	.....	2.23	.....	.....	.....
7881	.....	.....	27.60	.....	.....	.....	2.23	.....	2.23	.....	.....	.....
.....	.....	.....	27.00	.....	.....	.....	2.00	.....	2.00	.....	.....	.....
7823	.....	.....	27.00	.....	.....	.....	2.21	.....	2.21	.....	.....	.....
.....	.....	.....	29.00	.....	.....	.....	2.60	.....	2.60	.....	.....	.....
7805	.....	.....	7.25	.....	.....	.....	7.81	.....	7.81	.....	.....	.....
.....	.....	.....	9.38	.....	.....	.....	8.23	.....	8.23	.....	.....	.....
7629	6.30	1.40	7.70	.....	1.77	.....	2.89	.....	4.66	.....	1.67	0.97
7641	5.31	1.74	7.05	.....	2.21	.....	1.90	.....	4.11	.....	1.34	1.35
7690	6.76	1.34	8.10	.....	1.75	.....	2.69	.....	4.44	.....	1.78	1.10
.....	6.00	1.00	7.00	<i>G, Super, T</i>	0.75	.....	3.25	<i>G, T</i>	4.00	.....	1.00	.....
7676	6.58	1.82	8.40	.....	2.28	.....	2.36	.....	4.64	.....	2.01	1.17
7682	5.27	1.08	6.35	.....	2.01	.....	1.94	.....	3.95	.....	1.69	.....
.....	6.00	1.00	7.00	<i>G, Super, T</i>	1.00	.....	3.00	<i>G, T</i>	4.00	.....	1.00	.....
7868	5.63	1.12	6.75	.....	1.37	1.20	2.86	.....	5.43	.....	0.97	1.25
.....	6.00	1.00	7.00	<i>G, Super, T</i>	2.00	.....	3.00	<i>G, T</i>	5.00	.....	1.00	.....
7900	.....	.....	8.45	.....	1.66	0.87	3.30	.....	5.83	.....	1.62	1.00
.....	.....	.....	8.00	<i>Bn, G, Super, T</i>	2.50	.....	3.50	<i>Bn, G, T</i>	6.00	.....	1.00	.....
7610	5.17	1.98	7.15	.....	1.85	.....	1.21	.....	3.06	.....	1.07	0.98
7642	4.57	2.18	6.75	.....	1.88	.....	1.29	.....	3.17	.....	1.34	0.80
7678	4.80	2.70	7.50	.....	1.94	.....	1.13	.....	3.07	.....	1.06	0.82
7681	5.13	2.22	7.35	.....	2.16	.....	1.44	.....	3.60	.....	1.08	0.60
7691	5.32	2.28	7.60	.....	1.84	.....	1.18	.....	3.02	.....	1.15	0.80
.....	6.00	1.00	7.00	<i>G, Super, T</i>	1.00	.....	2.00	.....	3.00	.....	1.00	.....
7683	.....	.....	3.60	.....	.....	.....	3.07	.....	3.07	.....	1.31	0.92
7692	.....	.....	2.85	.....	.....	.....	3.00	.....	3.00	.....	1.33	1.35
7759	.....	.....	2.85	.....	.....	.....	3.02	.....	3.02	.....	1.43	1.02
7803	.....	.....	3.10	.....	.....	.....	3.17	.....	3.17	.....	1.21	1.10
.....	.....	.....	2.25	.....	.....	.....	2.75	.....	2.75	.....	1.25	.....
7627	2.88	0.62	3.50	.....	1.79	.....	1.65	.....	3.44	.....	1.32	0.70
7679	3.41	0.64	4.05	.....	1.50	.....	1.81	.....	3.31	.....	1.89	0.92
7680	3.28	1.12	4.40	.....	1.68	.....	2.07	.....	3.75	.....	1.16	0.57
7689	2.82	0.48	3.30	.....	1.54	.....	1.63	.....	3.17	.....	1.67	0.85
7801	2.91	0.74	3.65	.....	1.59	.....	1.56	.....	3.15	.....	1.35	0.65
.....	2.50	0.50	3.00	<i>G, Super, T</i>	0.50	.....	2.50	<i>G, T</i>	3.00	.....	1.00	.....
7694	.....	.....	.....	.....	.....	20.84	.....	.....	20.84	.....	.....	.....
.....	.....	.....	.....	.....	.....	20.50	.....	.....	20.50	.....	.....	.....

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	W. M. Warren Fertilizer Co., Covina, Cal.			
7806	Bird Guano	Manufacturer		53.66
	Guaranteed			62.30
7895	Blood	J. H. Simpson, Covina		117.00
	Guaranteed			112.50
7915	Blood	Charles E. Paige, Covina		116.64
	Guaranteed			114.48
7927*	Fish Tankage	Frank Mitchell, Covina		89.02
	Guaranteed			88.94
7917	Nitrate of Soda	Manufacturer		77.60
	Guaranteed			75.00
7908	Special	Ed Prather, Covina		56.42
	Guaranteed			53.20
7909*	Special	Mrs. Birdie Edgar, Covina		65.24
	Guaranteed			59.20
7807	Sulfate of Ammonia	Manufacturer		105.10
	Guaranteed			103.75
7918*	Tankage	Leighton & King, Covina		79.03
	Guaranteed			80.26

**Western Meat Co.,
San Francisco, Cal.**

7654	Blood, Diamond H	E. L. Koethen, Riverside	119.97
7666	Blood, Diamond H	B. L. Byer, Upland	123.03
7796	Blood	Forrest Manning, Azusa	124.74
	Guaranteed		121.50
7667*	Bone Meal, Diamond G	B. L. Byer, Upland	52.00
7797*	Bone Meal, Diamond G	Forrest Manning, Azusa	55.88
	Guaranteed		53.80
7652	Diamond D	E. L. Koethen, Riverside	53.36
	Guaranteed		49.00
7668	Special	B. L. Byer, Upland	68.86
7799	Special	Forrest Manning, Azusa	70.74
	Guaranteed		65.20
7669	Special	B. L. Byer, Upland	55.14
	Guaranteed		52.00
7670	Special	B. L. Byer, Upland	45.62
	Guaranteed		42.00
7671	Special	B. L. Byer, Upland	47.02
	Guaranteed		39.60
7934	Special	Curtis Ranch Co., Bloomington	55.42
7948	Special	W. M. Baird, Duarte	54.48
7949	Special	Curtis Ranch Co., Bloomington	58.43
7961	Special	W. M. Baird, Duarte	58.63
	Guaranteed		50.20
7938	Special	Curtis Ranch Co., Bloomington	56.47
	Guaranteed		52.20
7798*	Sulfate of Ammonia	Forrest Manning, Azusa	103.90
	Guaranteed		103.75
7656	Superphosphate	E. L. Koethen, Riverside	21.10
	Guaranteed		21.60

* 7927—72% fine.

* 7909—78% fine as T.

* 7918—63% fine.

* 7667—64% fine.

* 7797—62% fine.

* 7798—Improperly tagged, tags of unregistered manufacturers.

Lab. No.	NAME AND ADDRESS OF MANUFACTURER OR DEALER, AND NAME OF BRAND		FROM WHOM OBTAINED	Value per ton
	Western Meat Co., San Francisco, Cal.			
	(Continued)			
7618*	Tankage	J. Henry Reynolds, Redlands		64.09
	Guaranteed			62.00
7655*	Tankage	E. L. Koethen, Riverside		78.76
	Guaranteed			75.86
7657*	Tankage	E. L. Koethen, Riverside		79.04
7672*	Tankage	B. L. Byer, Upland		78.41
7794*	Tankage	Forrest Manning, Azusa		79.14
7812*	Tankage	A. W. Towne, Pomona		76.96
	Guaranteed			75.20
7673*	Tankage	B. L. Byer, Upland		78.78
7793*	Tankage	Forrest Manning, Azusa		78.22
	Guaranteed			76.39
7795*	Tankage	Forrest Manning, Azusa		83.78
	Guaranteed			89.80
7933*	Tankage	A. W. Towne, Pomona		
	Sold on station analysis.			
7653*	Tankage, Diamond I	E. L. Koethen, Riverside		70.54
	Guaranteed			62.05

Wilson & Co.,
Los Angeles, Cal.

7822*	Fish Tankage	Aggeler & Musser Seed Co., Los Angeles	77.51
	<i>Guaranteed</i>		76.60

* 7618—76% fine.
* 7655—76% fine.
* 7657—78% fine.
* 7672—68% fine.
* 7794—70% fine.
* 7812—68% fine.

* 7673—73% fine.
* 7793—72% fine.
* 7795—78% fine.
* 7933—87% fine.
* 7653—78% fine.
* 7822—66% fine.

Lab. No.	PHOSPHORIC ACID			Guaranteed as derived from	NITROGEN				Total	POTASH		CHLO- RIN
	Avail- able	In- soluble	Total		In Ni- trates	In Am- monia Salts	Or- ganic	Organic Nitrogen guaranteed as derived from		From Sulfate	Total	
7618	10.75	.....	.....	.....	6.13	.....	6.13	.....	.....	.....
.....	10.00	.....	.....	.....	6.00	.....	6.00	.....	.....	.....
7655	11.00	.....	.....	.....	7.92	.....	7.92	.....	.....	.....
.....	9.04	.....	.....	.....	7.90	.....	7.90	.....	.....	.....
7657	8.00	.....	.....	.....	8.48	.....	8.48	.....	.....	.....
7672	8.35	.....	.....	.....	8.34	.....	8.34	.....	.....	.....
7794	9.90	.....	.....	.....	8.16	.....	8.16	.....	.....	.....
7812	8.80	.....	.....	.....	8.08	.....	8.08	.....	.....	.....
.....	8.00	.....	.....	.....	8.00	.....	8.00	.....	.....	.....
7673	11.30	.....	.....	.....	7.87	.....	7.87	.....	.....	.....
7793	11.30	.....	.....	.....	7.80	.....	7.80	.....	.....	.....
.....	11.25	.....	.....	.....	7.58	.....	7.58	.....	.....	.....
7795	11.10	.....	.....	.....	8.53	.....	8.53	.....	.....	.....
.....	7.00	.....	.....	.....	10.00	.....	10.00	.....	.....	.....
7933	7.35	.....	.....	.....	8.43	.....	8.43	.....	.....	.....
7653	14.90	.....	.....	.....	6.21	.....	6.21	.....	.....	.....
.....	13.75	.....	.....	.....	5.35	.....	5.35	.....	.....	.....
7822	8.85	.....	.....	.....	8.14	.....	8.14	.....	.....	.....
.....	9.00	.....	.....	.....	8.00	.....	8.00	.....	.....	.....

